

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:48:58 ON 15 MAR 2006

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 16:49:09 ON 15 MAR 2006
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s il-12 or interleukin-12

FILE 'MEDLINE'

142536 IL

801344 12

9219 IL-12

(IL(W) 12)

143659 INTERLEUKIN

801344 12

7693 INTERLEUKIN-12

(INTERLEUKIN(W) 12)

L1 11078 IL-12 OR INTERLEUKIN-12

FILE 'SCISEARCH'

123911 IL

730031 12

10577 IL-12

(IL(W) 12)

138541 INTERLEUKIN

730031 12

5907 INTERLEUKIN-12

(INTERLEUKIN(W) 12)

L2 12522 IL-12 OR INTERLEUKIN-12

FILE 'LIFESCI'

51897 "IL"

132100 "12"

5613 IL-12

("IL" (W) "12")

50626 "INTERLEUKIN"

132100 "12"

4314 INTERLEUKIN-12

("INTERLEUKIN" (W) "12")

L3 6179 IL-12 OR INTERLEUKIN-12

FILE 'BIOTECHDS'

5049 IL

50167 12

798 IL-12

(IL(W) 12)

7762 INTERLEUKIN

50167 12

710 INTERLEUKIN-12

(INTERLEUKIN(W) 12)

L4 1089 IL-12 OR INTERLEUKIN-12

FILE 'BIOSIS'

139709 IL

776495 12

11229 IL-12

(IL(W) 12)

193053 INTERLEUKIN
776495 12
11527 INTERLEUKIN-12
 (INTERLEUKIN(W) 12)
L5 13566 IL-12 OR INTERLEUKIN-12

FILE 'EMBASE'
127043 "IL"
608286 "12"
8649 IL-12
 ("IL" (W) "12")
166336 "INTERLEUKIN"
608286 "12"
12748 INTERLEUKIN-12
 ("INTERLEUKIN" (W) "12")
L6 13803 IL-12 OR INTERLEUKIN-12

FILE 'HCAPLUS'
112192 IL
1373257 12
9577 IL-12
 (IL (W) 12)
142078 INTERLEUKIN
1373257 12
11820 INTERLEUKIN-12
 (INTERLEUKIN (W) 12)
L7 13556 IL-12 OR INTERLEUKIN-12

FILE 'NTIS'
1613 IL
88047 12
47 IL-12
 (IL (W) 12)
514 INTERLEUKIN
88047 12
11 INTERLEUKIN-12
 (INTERLEUKIN (W) 12)
L8 56 IL-12 OR INTERLEUKIN-12

FILE 'ESBIOBASE'
61997 IL
246422 12
7008 IL-12
 (IL (W) 12)
55794 INTERLEUKIN
246422 12
2636 INTERLEUKIN-12
 (INTERLEUKIN (W) 12)
L9 7688 IL-12 OR INTERLEUKIN-12

FILE 'BIOTECHNO'
51803 IL
132194 12
4353 IL-12
 (IL (W) 12)
70465 INTERLEUKIN
132194 12
5396 INTERLEUKIN-12
 (INTERLEUKIN (W) 12)
L10 5949 IL-12 OR INTERLEUKIN-12

FILE 'WPIDS'
10583 IL
1863200 12
1024 IL-12

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                (IL(W)12)
            8497 INTERLEUKIN
1863200 12
            548 INTERLEUKIN-12
                (INTERLEUKIN(W)12)
L11        1324 IL-12 OR INTERLEUKIN-12

TOTAL FOR ALL FILES
L12        86810 IL-12 OR INTERLEUKIN-12

=> s l12(10a)(serine or cysteine or cys or ser)
FILE 'MEDLINE'
            89427 SERINE
            64935 CYSTEINE
            13011 CYS
            21267 SER
L13        27 L1 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'SCISEARCH'
            51760 SERINE
            47434 CYSTEINE
            13341 CYS
            21683 SER
L14        30 L2 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'LIFESCI'
            21346 SERINE
            18083 CYSTEINE
            6246 CYS
            10414 SER
L15        22 L3 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'BIOTECHDS'
            4804 SERINE
            4207 CYSTEINE
            2696 CYS
            4610 SER
L16        3 L4 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'BIOSIS'
            68149 SERINE
            59077 CYSTEINE
            14000 CYS
            22012 SER
L17        24 L5 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'EMBASE'
            56880 SERINE
            49498 CYSTEINE
            11600 CYS
            18933 SER
L18        24 L6 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'HCAPLUS'
            105667 SERINE
            100080 CYSTEINE
            19777 CYS
            34635 SER
L19        36 L7 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'NTIS'
            523 SERINE
            490 CYSTEINE
            70 CYS
            403 SER

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L20 0 L8 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'ESBIOBASE'

27004 SERINE
23797 CYSTEINE
8427 CYS
12446 SER

L21 22 L9 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'BIOTECHNO'

28989 SERINE
22339 CYSTEINE
7657 CYS
11924 SER

L22 15 L10(10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'WPIDS'

8319 SERINE
8451 CYSTEINE
5099 CYS
9774 SER

L23 4 L11(10A) (SERINE OR CYSTEINE OR CYS OR SER)

TOTAL FOR ALL FILES

L24 207 L12(10A) (SERINE OR CYSTEINE OR CYS OR SER)

=> dup rem l24

PROCESSING COMPLETED FOR L24

L25 51 DUP REM L24 (156 DUPLICATES REMOVED)

=> d tot

L25 ANSWER 1 OF 51 MEDLINE on STN DUPLICATE 1

TI Vaccination with a preparation based on recombinant **cysteine**
peptidases and canine IL-12 does not protect dogs from
infection with Leishmania infantum.

SO Vaccine, (2006 Mar 24) Vol. 24, No. 14, pp. 2460-8. Electronic
Publication: 2006-01-04.

Journal code: 8406899. ISSN: 0264-410X.

AU Poot J; Spreeuwenberg K; Sanderson S J; Schijns V E C J; Mottram J C;
Coombs G H; Vermeulen A N

AN 2006119221 IN-PROCESS

L25 ANSWER 2 OF 51 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI New peptides from the NS3 protein of hepatitis C virus (HCV), useful for
prevention, treatment and diagnosis of HCV infection, particularly for
use as vaccines;

vector-mediate host cell gene transfer and expression in host cell for
use in recombinant vaccine and gene therapy

AU FOURNILLIER A; INCHAUSPE G; MARTIN P

AN 2005-18121 BIOTECHDS

PI FR 2862648 27 May 2005

L25 ANSWER 3 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Cysteine variants of growth hormone and related proteins and their
therapeutic uses

SO U.S. Pat. Appl. Publ., 66 pp., Cont.-in-part of U.S. 6,753,165.
CODEN: USXXCO

IN Cox, George N.

AN 2005:238410 HCAPLUS

DN 142:291899

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI	US 2005058621	A1	20050317	US 2003-685288	20031013
	WO 9903887	A1	19990128	WO 1998-US14497	19980713

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

WO 2000042175 A1 20000720 WO 2000-US931 20000114

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW

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US 6608183 B1 20030819 US 2000-462941 20000114

WO 2001087925 A2 20011122 WO 2001-US16088 20010516

WO 2001087925 A3 20020801

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6753165 B1 20040622 US 2001-889273 20010906

US 2003171284 A1 20030911 US 2002-298148 20021115

US 2003162949 A1 20030828 US 2003-400377 20030326

US 2004018586 A1 20040129 US 2003-276358 20030410

L25 ANSWER 4 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Aggregates of interleukin-2 and sodium dodecyl sulfate
 SO Ger. Gebrauchsmusterschrift, 40 pp.

CODEN: GGXXFR

AN 2005:959704 HCAPLUS

DN 143:292432

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 202005001888	U1	20050901	DE 2005-202005001888	20050207

L25 ANSWER 5 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Characterization of the Helicobacter pylori cysteine-rich protein A as a T-helper cell type 1 polarizing agent
 SO Infection and Immunity (2005), 73(8), 4732-4742
 CODEN: INFIBR; ISSN: 0019-9567

AU Deml, Ludwig; Aigner, Michael; Decker, Jochen; Eckhardt, Alexander; Schuetz, Christian; Mittl, Peer R. E.; Barabas, Sascha; Denk, Stefanie; Knoll, Gertrud; Lehn, Norbert; Schneider-Brachert, Wulf

AN 2005:684089 HCAPLUS

DN 143:192228

L25 ANSWER 6 OF 51 MEDLINE on STN DUPLICATE 2
 TI Constitutive tyrosine and serine phosphorylation of STAT4 in T-cells transformed with HTLV-I.
 SO Genes to cells : devoted to molecular & cellular mechanisms, (2005 Dec) Vol. 10, No. 12, pp. 1153-62.
 Journal code: 9607379. ISSN: 1356-9597.
 AU Higashi Takehiro; Tsukada Junichi; Yoshida Yasuhiro; Mizobe Takamitsu; Mouri Fumihiko; Minami Yasuhiro; Morimoto Hiroaki; Tanaka Yoshiya
 AN 2005644774 IN-PROCESS

L25 ANSWER 7 OF 51 MEDLINE on STN DUPLICATE 3
 TI Interleukin-12-induced interferon-gamma production by human peripheral blood T cells is regulated by mammalian target of rapamycin (mTOR).
 SO The Journal of biological chemistry, (2005 Jan 14) Vol. 280, No. 2, pp. 1037-43. Electronic Publication: 2004-11-01. Journal code: 2985121R. ISSN: 0021-9258.
 AU Kusaba Hitoshi; Ghosh Paritosh; Derin Rachel; Buchholz Meredith; Sasaki Carl; Madara Karen; Longo Dan L
 AN 2005016914 MEDLINE

L25 ANSWER 8 OF 51 MEDLINE on STN DUPLICATE 4
 TI Augmented IL-10 production and redox-dependent signaling pathways in glucose-6-phosphate dehydrogenase-deficient mouse peritoneal macrophages.
 SO Journal of leukocyte biology, (2005 Jul) Vol. 78, No. 1, pp. 85-94. Electronic Publication: 2005-04-07. Journal code: 8405628. ISSN: 0741-5400.
 AU Wilmanski Jeanette; Siddiqi Muhammad; Deitch Edwin A; Spolarics Zoltan
 AN 2005343118 MEDLINE

L25 ANSWER 9 OF 51 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Preparing a serine-rich foreign protein (e.g. leptin) comprises culturing Escherichia coli containing a cysteine synthase gene and a gene encoding the foreign protein in a culture medium, and harvesting the foreign protein;
 vector-mediated cysteine-synthase gene transfer and expression in host cell for recombinant protein production
 AU LEE S Y; HAN M
 AN 2004-20892 BIOTECHDS
 PI US 2004157290 12 Aug 2004

L25 ANSWER 10 OF 51 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI New thiophene derivatives useful for the treatment or prevention of a flaviridea viral infection in a host.
 PI WO 2004052885 A1 20040624 (200445)* EN 192 C07D409-12
 RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
 AU 2003291885 A1 20040630 (200472) C07D409-12
 US 2005009804 A1 20050113 (200506) C07D403-02
 EP 1569929 A1 20050907 (200559) EN C07D409-12
 R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR
 BR 2003016771 A 20051025 (200571) C07D409-12
 IN CHAN CHUN KONG, L; DAS, S K; HALAB, L; HAMELIN, B; NGUYEN-BA, N; PEREIRA, O Z; POISSON, C; PROULX, M; REDDY, T J; ZHANG, M; KONG, L C C; NGUYEN-BA, H; CHAN, C K L; MING-QIANG, Z

L25 ANSWER 11 OF 51 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI New thiophene derivatives are viral polymerase activity inhibitor useful to treat or prevent a Flaviviridae viral infection i.e. hepatitis C viral (HCV) infection.
 PI WO 2004052879 A1 20040624 (200445)* EN 73 C07D333-38
 RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
 US 2004192707 A1 20040930 (200465) A61K031-52
 AU 2003291886 A1 20040630 (200472) C07D333-38

IN CHAN CHUN KONG, L; DAS, S K; HALAB, L; NGUYEN-BA, N; PEREIRA, O Z;
POISSON, C; REDDY, T J; ZHANG, M; CHAN, C K L

L25 ANSWER 12 OF 51 MEDLINE on STN DUPLICATE 6
TI A Toll-like receptor 2 ligand stimulates Th2 responses in vivo, via
induction of extracellular signal-regulated kinase mitogen-activated
protein kinase and c-Fos in dendritic cells.
SO Journal of immunology (Baltimore, Md. : 1950), (2004 Apr 15) Vol. 172, No.
8, pp. 4733-43.
Journal code: 2985117R. ISSN: 0022-1767.
AU Dillon Stephanie; Agrawal Anshu; Van Dyke Thomas; Landreth Gary; McCauley
Laurie; Koh Amy; Maliszewski Charles; Akira Shizuo; Pulendran Bali
AN 2004183941 MEDLINE

L25 ANSWER 13 OF 51 MEDLINE on STN DUPLICATE 7
TI Impairment of IL-12-dependent STAT4 nuclear translocation in a patient
with recurrent Mycobacterium avium infection.
SO Journal of immunology (Baltimore, Md. : 1950), (2004 Mar 15) Vol. 172, No.
6, pp. 3905-12.
Journal code: 2985117R. ISSN: 0022-1767.
AU Toyoda Hidemi; Ido Masaru; Hayashi Tatsuya; Gabazza Esteban C; Suzuki
Koji; Bu Jun; Tanaka Shigeki; Nakano Takashi; Kamiya Hitoshi; Chipeta
James; Kisenge Rodrick R; Kang Jian; Hori Hiroki; Komada Yoshihiro
AN 2004129996 MEDLINE

L25 ANSWER 14 OF 51 MEDLINE on STN DUPLICATE 8
TI Inhibition of lipopolysaccharide-induced macrophage IL-
12 production by Leishmania mexicana amastigotes: the role of
cysteine peptidases and the NF-kappaB signaling pathway.
SO Journal of immunology (Baltimore, Md. : 1950), (2004 Sep 1) Vol. 173, No.
5, pp. 3297-304.
Journal code: 2985117R. ISSN: 0022-1767.
AU Cameron Pamela; McGachy Adrienne; Anderson Mary; Paul Andrew; Coombs
Graham H; Mottram Jeremy C; Alexander James; Plevin Robin
AN 2004421238 MEDLINE

L25 ANSWER 15 OF 51 MEDLINE on STN DUPLICATE 9
TI Microtubule-associated serine/threonine kinase-205 kDa and Fc
gamma receptor control IL-12 p40 synthesis and
NF-kappa B activation.
SO Journal of immunology (Baltimore, Md. : 1950), (2004 Feb 15) Vol. 172, No.
4, pp. 2559-68.
Journal code: 2985117R. ISSN: 0022-1767.
AU Zhou Hui; Xiong Huabao; Li Hongxing; Plevy Scott E; Walden Paul D;
Sassaroli Massimo; Prestwich Glenn D; Unkeless Jay C
AN 2004081773 MEDLINE

L25 ANSWER 16 OF 51 MEDLINE on STN DUPLICATE 10
TI A serine/threonine kinase, Cot/Tpl2, modulates bacterial
DNA-induced IL-12 production and Th cell
differentiation.
SO The Journal of clinical investigation, (2004 Sep) Vol. 114, No. 6, pp.
857-66.
Journal code: 7802877. ISSN: 0021-9738.
AU Sugimoto Kenji; Ohata Mutsuhiro; Miyoshi Jun; Ishizaki Hiroyoshi; Tsuboi
Naotake; Masuda Akio; Yoshikai Yasunobu; Takamoto Masaya; Sugane Kazuo;
Matsuo Seiichi; Shimada Yasuhiro; Matsuguchi Tetsuya
AN 2004461645 MEDLINE

L25 ANSWER 17 OF 51 MEDLINE on STN DUPLICATE 11
TI Interleukin-12 up-regulates perforin- and Fas-mediated
lymphokine-activated killer activity by intestinal intraepithelial
lymphocytes.
SO Clinical and experimental immunology, (2004 Nov) Vol. 138, No. 2, pp.
259-65.

Journal code: 0057202. ISSN: 0009-9104.

AU Ebert E C

AN 2004527611 MEDLINE

L25 ANSWER 18 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Cysteine derivatives of GM-CSF and related proteins, and therapeutic uses thereof

SO U.S. Pat. Appl. Publ., 56 pp., Cont.-in-part of U. S. Ser. No. 462,941.
CODEN: USXXCO

IN Cox, George N.; Doherty, Daniel H.

AN 2003:717744 HCAPLUS

DN 139:208231

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003171284	A1	20030911	US 2002-298148	20021115
	WO 9903887	A1	19990128	WO 1998-US14497	19980713
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6608183	B1	20030819	US 2000-462941	20000114
	US 2005058621	A1	20050317	US 2003-685288	20031013

L25 ANSWER 19 OF 51 MEDLINE on STN DUPLICATE 12

TI Engineering Escherichia coli for increased productivity of serine-rich proteins based on proteome profiling.

SO Applied and environmental microbiology, (2003 Oct) Vol. 69, No. 10, pp. 5772-81.

Journal code: 7605801. ISSN: 0099-2240.

AU Han Mee-Jung; Jeong Ki Jun; Yoo Jong-Shin; Lee Sang Yup

AN 2003497591 MEDLINE

L25 ANSWER 20 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Transfer of Severe Experimental Autoimmune Encephalomyelitis by IL-12- and IL-18-Potentiated T Cells Is Estrogen Sensitive

SO Journal of Immunology (2003), 170(9), 4802-4809
CODEN: JOIMA3; ISSN: 0022-1767

AU Ito, Atsushi; Matejuk, Agata; Hopke, Corwyn; Drought, Heather; Dwyer, Jami; Zamora, Alex; Subramanian, Sandhya; Vandenbark, Arthur A.; Offner, Halina

AN 2003:306481 HCAPLUS

DN 138:400242

L25 ANSWER 21 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Cysteine protease B of leishmania mexicana inhibits host Th1 responses and protective immunity

SO Journal of Immunology (2003), 171(7), 3711-3717
CODEN: JOIMA3; ISSN: 0022-1767

AU Buxbaum, Laurence U.; Denise, Hubert; Coombs, Graham H.; Alexander, James; Mottram, Jeremy C.; Scott, Phillip

AN 2003:790878 HCAPLUS

DN 139:291086

L25 ANSWER 22 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN

TI The Leishmania mexicana Cysteine Protease, CPB2.8, Induces Potent Th2 Responses

SO Journal of Immunology (2003), 170(4), 1746-1753
CODEN: JOIMA3; ISSN: 0022-1767

AU Pollock, Kevin G. J.; McNeil, Katherine S.; Mottram, Jeremy C.; Lyons, Russell E.; Brewer, James M.; Scott, Phillip; Coombs, Graham H.; Alexander, James

AN 2003:129158 HCAPLUS
DN 138:186312

L25 ANSWER 23 OF 51 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Impairment of interleukin-12 dependent STAT4 nuclear translocation in a patient with recurrent Mycobacterium avium infection.
SO Blood, (November 16 2003) Vol. 102, No. 11, pp. 52b. print.
Meeting Info.: 45th Annual Meeting of the American Society of Hematology. San Diego, CA, USA. December 06-09, 2003. American Society of Hematology. CODEN: BLOOAW. ISSN: 0006-4971.
AU Toyoda, Hidemi [Reprint Author]; Ido, Masaru [Reprint Author]; Hayashi, Tatsuya; Suzuki, Koji; Kisenge, Rodrick R. [Reprint Author]; Kamiya, Hitoshi; Tanaka, Shigeki; Komada, Yoshihiro [Reprint Author]
AN 2004:167262 BIOSIS

L25 ANSWER 24 OF 51 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Use of polymerase activity inhibitors in the manufacture of a medicament useful for the treatment of viral flaviviridae infection in a host.
PI WO 2002100851 A2 20021219 (200317)* EN 159 C07D333-40
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW
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EP 1401825 A2 20040331 (200424) EN C07D333-40
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR
CZ 2003003368 A3 20040414 (200435) C07D333-40
US 2004116509 A1 20040617 (200440) A61K031-381
BR 2002010357 A 20040629 (200444) C07D333-40
SK 2003001520 A3 20040707 (200447) C07D333-40
ZA 2003009590 A 20040630 (200448) 336 A61K000-00
AU 2002344854 A1 20021223 (200452) C07D333-40
KR 2004030671 A 20040409 (200453) C07D333-40
JP 2005500288 W 20050106 (200505) 582 C07D333-40
US 6881741 B2 20050419 (200527) A61K031-44
CN 1602308 A 20050330 (200547) C07D333-40
MX 2003011452 A1 20050301 (200568) C07D333-40
IN BEDARD, J; CHAN, C K L; DAS, S K; NGUYEN BA, N; PEREIRA, O Z; REDDY, T J; SIDDIQUI, M A; WANG, W; YANNOPOULOS, C; BA, N N; NGUYEN, B N; CHAN CHUN KONG, L; KUMAR, S

L25 ANSWER 25 OF 51 MEDLINE on STN DUPLICATE 13
TI STAT4 **serine** phosphorylation is critical for IL-12-induced IFN-gamma production but not for cell proliferation.
SO Proceedings of the National Academy of Sciences of the United States of America, (2002 Sep 17) Vol. 99, No. 19, pp. 12281-6. Electronic Publication: 2002-09-04.
Journal code: 7505876. ISSN: 0027-8424.
AU Morinobu Akio; Gadina Massimo; Strober Warren; Visconti Roberta; Fornace Albert; Montagna Cristina; Feldman Gerald M; Nishikomori Ryuta; O'Shea John J
AN 2002489464 MEDLINE

L25 ANSWER 26 OF 51 MEDLINE on STN DUPLICATE 14
TI Serine phosphorylation of Stat5 proteins in lymphocytes stimulated with IL-2.
SO International immunology, (2002 Nov) Vol. 14, No. 11, pp. 1263-71.
Journal code: 8916182. ISSN: 0953-8178.
AU Xue Hai-Hui; Fink Donald W Jr; Zhang Xiaolong; Qin Jun; Turck Christoph W; Leonard Warren J
AN 2002695257 MEDLINE

L25 ANSWER 27 OF 51 MEDLINE on STN DUPLICATE 15
 TI Synergy of IL-12 and IL-18 for IFN-gamma gene expression: IL-12-induced
 STAT4 contributes to IFN-gamma promoter activation by up-regulating the
 binding activity of IL-18-induced activator protein 1.
 SO Journal of immunology (Baltimore, Md. : 1950), (2002 Feb 1) Vol. 168, No.
 3, pp. 1146-53.
 Journal code: 2985117R. ISSN: 0022-1767.
 AU Nakahira Masakiyo; Ahn Hyun-Jong; Park Woong-Ryeon; Gao Ping; Tomura
 Michio; Park Cheung-Seog; Hamaoka Toshiyuki; Ohta Tsunetaka; Kurimoto
 Masashi; Fujiwara Hiromi
 AN 2002075945 MEDLINE

L25 ANSWER 28 OF 51 MEDLINE on STN DUPLICATE 16
 TI Thiol antioxidants inhibit the formation of the interleukin-12
 heterodimer: a novel mechanism for the inhibition of IL-12 production.
 SO Cytokine, (2002 Mar 21) Vol. 17, No. 6, pp. 285-93.
 Journal code: 9005353. ISSN: 1043-4666.
 AU Mazzeo Daniela; Sacco Silvano; Di Lucia Pietro; Penna Giuseppe; Adorini
 Luciano; Panina-Bordignon Paola; Ghezzi Pietro
 AN 2002319831 MEDLINE

L25 ANSWER 29 OF 51 MEDLINE on STN DUPLICATE 17
 TI Hydrolysis of **interleukin-12** by Porphyromonas
 gingivalis major **cysteine** proteinases may affect local gamma
 interferon accumulation and the Th1 or Th2 T-cell phenotype in
 periodontitis.
 SO Infection and immunity, (2001 Sep) Vol. 69, No. 9, pp. 5650-60.
 Journal code: 0246127. ISSN: 0019-9567.
 AU Yun P L; Decarlo A A; Collyer C; Hunter N
 AN 2001454855 MEDLINE

L25 ANSWER 30 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Modulation of human T cell responses and macrophage functions by
 onchocystatin, a secreted protein of the filarial nematode Onchocerca
 volvulus
 SO Journal of Immunology (2001), 167(6), 3207-3215
 CODEN: JOIMA3; ISSN: 0022-1767
 AU Schonemeyer, Annett; Lucius, Richard; Sonnenburg, Bettina; Brattig,
 Norbert; Sabat, Robert; Schilling, Klaus; Bradley, Janette; Hartmann,
 Susanne
 AN 2001:695161 HCAPLUS
 DN 135:370584

L25 ANSWER 31 OF 51 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
 STN
 TI STAT4 **serine** phosphorylation is critical for IL-
 12 induced IFN-gamma production and Th1 differentiation.
 SO ARTHRITIS AND RHEUMATISM, (SEP 2001) Vol. 44, No. 9, Supp. [S], pp.
 S377-S377. MA 1944.
 ISSN: 0004-3591.
 AU Morinobu A (Reprint); Gadina M; Visconti R; Feldman G M; Nishikomori R;
 Strober W; O'Shea J J
 AN 2002:105188 SCISEARCH

L25 ANSWER 32 OF 51 MEDLINE on STN DUPLICATE 18
 TI Importance of the MKK6/p38 pathway for **interleukin-12**
 -induced STAT4 **serine** phosphorylation and transcriptional
 activity.
 SO Blood, (2000 Sep 1) Vol. 96, No. 5, pp. 1844-52.
 Journal code: 7603509. ISSN: 0006-4971.
 AU Visconti R; Gadina M; Chiariello M; Chen E H; Stancato L F; Gutkind J S;
 O'Shea J J
 AN 2000492569 MEDLINE

L25 ANSWER 33 OF 51 MEDLINE on STN DUPLICATE 19
 TI IL-12 selectively regulates STAT4 via phosphatidylinositol 3-kinase and Ras-independent signal transduction pathways.
 SO European journal of immunology, (2000 May) Vol. 30, No. 5, pp. 1425-34. Journal code: 1273201. ISSN: 0014-2980.
 AU Athie-M V; Flotow H; Hilyard K L; Cantrell D A
 AN 2000281489 MEDLINE

L25 ANSWER 34 OF 51 MEDLINE on STN DUPLICATE 20
 TI Differential effects of N-acetyl-l-cysteine on IL-2- vs IL-12-driven proliferation of a T cell clone: implications for distinct signalling pathways.
 SO Cytokine, (2000 Sep) Vol. 12, No. 9, pp. 1419-22. Journal code: 9005353. ISSN: 1043-4666.
 AU Park C S; Park W R; Sugimoto N; Nakahira M; Ahn H J; Hamaoka T; Ohta T; Kurimoto M; Fujiwara H
 AN 2001032642 MEDLINE

L25 ANSWER 35 OF 51 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 21
 TI Importance of the MKK6-p38 pathway for IL-12-induced Stat4 serine phosphorylation and transcriptional activity
 SO FASEB JOURNAL, (20 APR 2000) Vol. 14, No. 6, Supp. [S], pp. A1084-A1084. ISSN: 0892-6638.
 AU Visconti R (Reprint); Gadina M; Chiariello M; Chen E H; Stancato L F; Gutkind J S; O'Shea J J
 AN 2000:488468 SCISEARCH

L25 ANSWER 36 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Immunological analysis of reduced glutathione, L-cysteine and anthocyan effects in Chernobyl children with recurrent respiratory infections and chronic inflammatory focal lesions
 SO Central European Journal of Immunology (2000), 25(3), 137-145 CODEN: CJIMFW; ISSN: 1426-3912
 AU Chernyshov, Viktor P.; Omelchenko, Lyudmila I.; Treusch, Gernot; Vodyanik, Maxim A.; Pochinok, Tatyana V.; Gumenyuk, Marina V.; Zelinsky, Gennady M.
 AN 2001:132538 HCAPLUS
 DN 135:207514

L25 ANSWER 37 OF 51 MEDLINE on STN DUPLICATE 22
 TI The functional synergy between IL-12 and IL-2 involves p38 mitogen-activated protein kinase and is associated with the augmentation of STAT serine phosphorylation.
 SO Journal of immunology (Baltimore, Md. : 1950), (1999 Apr 15) Vol. 162, No. 8, pp. 4472-81. Journal code: 2985117R. ISSN: 0022-1767.
 AU Gollob J A; Schnipper C P; Murphy E A; Ritz J; Frank D A
 AN 1999218482 MEDLINE

L25 ANSWER 38 OF 51 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
 AN 1999209559 ESBIODBASE
 TI Mutated ras p21 as a target for cancer therapy in mouse transitional cell carcinoma
 AU Luo Y.; Chen X.; Han R.; Chorev M.; Dewolf W.C.; O'Donnell M.A.
 CS M.A. O'Donnell, Division of Urology, Beth Israel Deaconess Medical Center, East Campus, 330 Brookline Ave., Boston, MA 02215, United States.
 SO Journal of Urology, (1999), 162/4 (1519-1526), 40 reference(s) CODEN: JOURAA ISSN: 0022-5347
 DT Journal; Article
 CY United States
 LA English
 SL English

L25 ANSWER 39 OF 51 MEDLINE on STN DUPLICATE 24

TI Expression of SCM-1alpha/lymphotactin and SCM-1beta in natural killer cells is upregulated by IL-2 and IL-12.
 SO DNA and cell biology, (1999 Jul) Vol. 18, No. 7, pp. 565-71.
 Journal code: 9004522. ISSN: 1044-5498.
 AU Hennemann B; Tam Y K; Tonn T; Klingemann H G
 AN 1999360937 MEDLINE

L25 ANSWER 40 OF 51 MEDLINE on STN DUPLICATE 25
 TI Interleukin-12 augments cytolytic activity of peripheral and decidual lymphocytes against choriocarcinoma cell lines and primary culture human placental trophoblasts.
 SO American journal of reproductive immunology (New York, N.Y. : 1989), (1999 May) Vol. 41, No. 5, pp. 320-9.
 Journal code: 8912860. ISSN: 1046-7408.
 AU Hayakawa S; Nagai N; Kanaeda T; Karasaki-Suzuki M; Ishii M; Chishima F; Satoh K
 AN 1999305790 MEDLINE

L25 ANSWER 41 OF 51 MEDLINE on STN DUPLICATE 26
 TI Chloromethyl ketones inhibit interleukin-12 production in mouse macrophages stimulated with lipopolysaccharide.
 SO Immunology letters, (1999 Nov 1) Vol. 70, No. 2, pp. 135-8.
 Journal code: 7910006. ISSN: 0165-2478.
 AU Kang B Y; Chung S W; Im S Y; Hwang S Y; Kim T S
 AN 2000034991 MEDLINE

L25 ANSWER 42 OF 51 MEDLINE on STN DUPLICATE 27
 TI Down-regulation of IL-12, not a shift from a T helper-1 to a T helper-2 phenotype, is responsible for impaired IFN-gamma production in mammary tumor-bearing mice.
 SO Journal of immunology (Baltimore, Md. : 1950), (1997 Jan 1) Vol. 158, No. 1, pp. 280-6.
 Journal code: 2985117R. ISSN: 0022-1767.
 AU Handel-Fernandez M E; Cheng X; Herbert L M; Lopez D M
 AN 97131699 MEDLINE

L25 ANSWER 43 OF 51 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
 TI Increased blood concentrations of interleukin-12 are associated with a longer survival in untreatable metastatic solid tumor patients: preliminary observations
 SO INTERNATIONAL JOURNAL OF BIOLOGICAL MARKERS, (JUL-SEP 1997) Vol. 12, No. 3, pp. 125-127.
 ISSN: 0393-6155.
 AU Lissoni P (Reprint); Rovelli F; Fumagalli L; Mauri E; Barni S; Tancini G
 AN 1998:106386 SCISEARCH

L25 ANSWER 44 OF 51 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 28
 TI Bioactive murine and human interleukin-12 fusion proteins which retain antitumor activity in vivo
 SO NATURE BIOTECHNOLOGY, (JAN 1997) Vol. 15, No. 1, pp. 35-40.
 ISSN: 1087-0156.
 AU Lieschke G J (Reprint); Rao P K; Gately M K; Mulligan R C
 AN 1997:37223 SCISEARCH

L25 ANSWER 45 OF 51 MEDLINE on STN DUPLICATE 29
 TI Activation of STAT4 by IL-12 and IFN-alpha: evidence for the involvement of ligand-induced tyrosine and serine phosphorylation.
 SO Journal of immunology (Baltimore, Md. : 1950), (1996 Dec 1) Vol. 157, No. 11, pp. 4781-9.
 Journal code: 2985117R. ISSN: 0022-1767.
 AU Cho S S; Bacon C M; Sudarshan C; Rees R C; Finbloom D; Pine R; O'Shea J J
 AN 97098702 MEDLINE

L25 ANSWER 46 OF 51 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 30
 TI Definition of a natural killer NKR-P1A super(+)/CD56 super(-)/CD16
 super(-) functionally immature human NK cell subset that differentiates in
 vitro in the presence of interleukin 12
 SO J. EXP. MED., (1996) vol. 184, no. 5, pp. 1845-1856.
 ISSN: 0022-1007.
 AU Bennett, I.M.; Zatsepina, O.; Zama, L.; Azzoni, L.; Mikheeva, T.;
 Perussia, B.*
 AN 97:58236 LIFESCI

L25 ANSWER 47 OF 51 MEDLINE on STN DUPLICATE 31
 TI Differential utilization of Janus kinase-signal transducer activator of
 transcription signaling pathways in the stimulation of human natural
 killer cells by IL-2, IL-12, and IFN-alpha.
 SO Journal of immunology (Baltimore, Md. : 1950), (1996 Jul 1) Vol. 157, No.
 1, pp. 126-37.
 Journal code: 2985117R. ISSN: 0022-1767.
 AU Yu C R; Lin J X; Fink D W; Akira S; Bloom E T; Yamauchi A
 AN 96264681 MEDLINE

L25 ANSWER 48 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Regulation of gene expression and nitric oxide production in murine
 macrophages by the serine/threonine phosphatase inhibitor okadaic acid
 SO Journal of Endotoxin Research (1996), 3(1), 19-27
 CODEN: JENREB; ISSN: 0968-0519
 AU Barber, S.A.; Salkowski, C.A.; Fultz, M.J.; Perera, P.-Y.; McNally, R.;
 Vogel, S. N.
 AN 1996:291091 HCAPLUS
 DN 124:340545

L25 ANSWER 49 OF 51 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
 STN DUPLICATE 32
 TI IL-12 AND IL-2 SYNERGIZE TO INCREASE PERFORIN AND
 SERINE ESTERASE GENE-TRANSCRIPTION BY FRESH HUMAN NK CELLS
 SO FASEB JOURNAL, (MAR 1994) Vol. 8, No. 4, pp. A512-A512.
 ISSN: 0892-6638.
 AU HOHE D F (Reprint); BLOOM E T
 AN 1994:182385 SCISEARCH

L25 ANSWER 50 OF 51 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 33
 TI Cooperation of natural killer cell stimulatory factor/interleukin-12 with
 other stimuli in the induction of cytokines and cytotoxic cell-associated
 molecules in human T and NK cells
 SO CELL. IMMUNOL., (1994) vol. 156, no. 2, pp. 480-492.
 ISSN: 0008-8749.
 AU Aste-Amezaga, M.; D'Andrea, A.; Kubin, M.; Trinchieri, G.*
 AN 95:39903 LIFESCI

L25 ANSWER 51 OF 51 MEDLINE on STN DUPLICATE 34
 TI Cellular and molecular mechanisms of activation of MHC nonrestricted
 cytotoxic cells by IL-12.
 SO Journal of immunology (Baltimore, Md. : 1950), (1993 Sep 15) Vol. 151, No.
 6, pp. 2943-57.
 Journal code: 2985117R. ISSN: 0022-1767.
 AU Cesano A; Visonneau S; Clark S C; Santoli D
 AN 93389123 MEDLINE

=> s l12 and ((serine or cysteine or cys or ser) (8a) (rich or level) or (amino
 acid) (2a) composition)
 FILE 'MEDLINE'

89427 SERINE
 64935 CYSTEINE
 13011 CYS
 21267 SER

82454 RICH
 704944 LEVEL
 6704 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 612387 AMINO
 1388293 ACID
 459270 AMINO ACID
 (AMINO(W)ACID)
 155172 COMPOSITION
 9724 (AMINO ACID) (2A)COMPOSITION
 L26 8 L1 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 OR (AMINO ACID) (2A)COMPOSITION)

FILE 'SCISEARCH'

51760 SERINE
 47434 CYSTEINE
 13341 CYS
 21683 SER
 151346 RICH
 789767 LEVEL
 6717 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 385550 AMINO
 1114189 ACID
 204369 AMINO ACID
 (AMINO(W)ACID)
 364673 COMPOSITION
 6405 (AMINO ACID) (2A)COMPOSITION
 L27 11 L2 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 OR (AMINO ACID) (2A)COMPOSITION)

FILE 'LIFESCI'

21346 SERINE
 18083 CYSTEINE
 6246 CYS
 10414 SER
 34806 RICH
 185647 LEVEL
 3465 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 166826 "AMINO"
 297172 "ACID"
 115086 AMINO ACID
 ("AMINO" (W) "ACID")
 93111 COMPOSITION
 4454 (AMINO ACID) (2A)COMPOSITION
 L28 5 L3 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 OR (AMINO ACID) (2A)COMPOSITION)

FILE 'BIOTECHDS'

4804 SERINE
 4207 CYSTEINE
 2696 CYS
 4610 SER
 4503 RICH
 29471 LEVEL
 420 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 66130 AMINO
 135918 ACID
 47397 AMINO ACID
 (AMINO(W)ACID)
 35551 COMPOSITION
 805 (AMINO ACID) (2A)COMPOSITION
 L29 10 L4 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 OR (AMINO ACID) (2A)COMPOSITION)

FILE 'BIOSIS'

68149 SERINE

59077 CYSTEINE
 14000 CYS
 22012 SER
 105895 RICH
 787952 LEVEL
 7379 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 521001 AMINO
 1241250 ACID
 303253 AMINO ACID
 (AMINO (W) ACID)
 293000 COMPOSITION
 16411 (AMINO ACID) (2A) COMPOSITION
 L30 11 L5 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 OR (AMINO ACID) (2A) COMPOSITION)

FILE 'EMBASE'

56880 SERINE
 49498 CYSTEINE
 11600 CYS
 18933 SER
 74340 RICH
 1125574 LEVEL
 5907 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 422113 "AMINO"
 1370952 "ACID"
 285609 AMINO ACID
 ("AMINO" (W) "ACID")
 140610 COMPOSITION
 10364 (AMINO ACID) (2A) COMPOSITION
 L31 12 L6 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 OR (AMINO ACID) (2A) COMPOSITION)

FILE 'HCAPLUS'

105667 SERINE
 100080 CYSTEINE
 19777 CYS
 34635 SER
 275352 RICH
 1299913 LEVEL
 8822 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 1061444 AMINO
 4114351 ACID
 526886 AMINO ACID
 (AMINO (W) ACID)
 649360 COMPOSITION
 1385564 COMPN
 1781963 COMPOSITION
 (COMPOSITION OR COMPN)
 28940 (AMINO ACID) (2A) COMPOSITION
 L32 25 L7 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 OR (AMINO ACID) (2A) COMPOSITION)

FILE 'NTIS'

523 SERINE
 490 CYSTEINE
 70 CYS
 403 SER
 9239 RICH
 145716 LEVEL
 44 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 6963 AMINO
 43887 ACID
 2458 AMINO ACID
 (AMINO (W) ACID)
 62890 COMPOSITION

167 (AMINO ACID) (2A)COMPOSITION
L33 0 L8 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
OR (AMINO ACID) (2A)COMPOSITION)

FILE 'ESBIOBASE'

27004 SERINE
23797 CYSTEINE
8427 CYS
12446 SER
45250 RICH
257772 LEVEL
4411 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
177810 AMINO
337183 ACID
99094 AMINO ACID
(AMINO(W)ACID)
78871 COMPOSITION
2056 (AMINO ACID) (2A)COMPOSITION
L34 7 L9 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
OR (AMINO ACID) (2A)COMPOSITION)

FILE 'BIOTECHNO'

28989 SERINE
22339 CYSTEINE
7657 CYS
11924 SER
29372 RICH
204610 LEVEL
4230 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
204625 AMINO
349810 ACID
154660 AMINO ACID
(AMINO(W)ACID)
36875 COMPOSITION
5058 (AMINO ACID) (2A)COMPOSITION
L35 6 L10 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
OR (AMINO ACID) (2A)COMPOSITION)

FILE 'WPIDS'

8319 SERINE
8451 CYSTEINE
5099 CYS
9774 SER
33926 RICH
546587 LEVEL
367 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
244872 AMINO
939123 ACID
68924 AMINO ACID
(AMINO(W)ACID)
687202 COMPOSITION
8956 COMPN
388439 COMPSN
833907 COMPOSITION
(COMPOSITION OR COMPN OR COMPSN)
1022 (AMINO ACID) (2A)COMPOSITION
L36 12 L11 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
OR (AMINO ACID) (2A)COMPOSITION)

TOTAL FOR ALL FILES

L37 107 L12 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
OR (AMINO ACID) (2A) COMPOSITION)

=> dup rem l37

PROCESSING COMPLETED FOR L37

L38 43 DUP REM L37 (64 DUPLICATES REMOVED)

=> d tot

L38 ANSWER 1 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI New stem cell comprising a self-replicating artificial chromosome
comprising a neocentromere having centromeric chromatin domains, useful
for tissue repair, replacement, rejuvenation and/or augmentation therapy;
self-replicating artificial chromosome-containing stem cell for cell
therapy and gene therapy
AU CHOO K A; WONG L H; SAFFERY R E
AN 2005-16023 BIOTECHDS
PI WO 2005040391 6 May 2005

L38 ANSWER 2 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2
TI Methods of using databases to create gene-expression microarrays, equine
and canine microarrays created thereby, and uses of the microarrays
SO PCT Int. Appl., 1475 pp.
CODEN: PIXXD2
IN Bertone, Alicia; Gu, Weisong
AN 2005:713955 HCAPLUS
DN 143:187909

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005067649	A2	20050728	WO 2005-XA517	20050107
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,				
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:				
BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,				
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,				
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,				
MR, NE, SN, TD, TG				
WO 2005067649	A2	20050728	WO 2005-US517	20050107
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,				
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:				
BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,				
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,				
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,				
MR, NE, SN, TD, TG				

L38 ANSWER 3 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Diagnosis and prevention of hyperinsulinemia and type II diabetes using
patterns of gene expression in muscle cells
SO PCT Int. Appl., 300 pp.
CODEN: PIXXD2
IN Kopchick, John J.; Coschigano, Karen T.; Boyce, Keith S.; Kriete, Andres
AN 2005:984043 HCAPLUS
DN 143:284109

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005082398	A2	20050909	WO 2005-US5596	20050224
WO 2005082398	A3	20060126		
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,				

NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
 SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

L38 ANSWER 4 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Combination composition comprising an antagonist of tissue factor (TF) and an anticancer compound for treating disorders related to TF dysfunction

SO PCT Int. Appl., 58 pp.

CODEN: PIXXD2

IN Mueller, Jorn Roland

AN 2005:962021 HCAPLUS

DN 143:272421

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005079766	A2	20050901	WO 2005-DK98	20050214
WO 2005079766	A3	20051013		
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,				
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,				
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,				
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,				
MR, NE, SN, TD, TG				

L38 ANSWER 5 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN

TI The curcuminoids- and anthocyanins-responsive genes in human adipocytes and their use in screenings of anti-obesity and anti-diabetes drugs

SO Jpn. Kokai Tokkyo Koho, 85 pp.

CODEN: JKXXAF

IN Ueno, Yuki; Tsuda, Takanori; Takanori, Hitoshi; Yoshikawa, Toshikazu; Osawa, Toshihiko

AN 2005:671727 HCAPLUS

DN 143:166667

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005198640	A2	20050728	JP 2004-53258	20040227

L38 ANSWER 6 OF 43 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI New amyloid Beta peptide that elicits a T-cell response, useful in preparing a composition for diagnosing or treating amyloid fibril disorders.

PI WO 2005012330 A2 20050210 (200517)* EN 80 C07K000-00
 RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE
 LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE
 DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG
 KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ
 OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG
 US UZ VC VN YU ZA ZM ZW
 US 2005123553 A1 20050609 (200538) G01N033-53
 IN MONSONEGO, A; SELKOE, D J; WEINER, H

L38 ANSWER 7 OF 43 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI New dual chain synthetic heparin-binding growth factor analog, useful for preventing or treating mucositis, gastrointestinal syndrome, or radionecrosis.

PI US 2005222394 A1 20051006 (200568)* 30 A61K038-18

IN LIN, X; PENA, L A; ZAMORA, P O

L38 ANSWER 8 OF 43 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI The keratan sulfate disaccharide gal(6S03) beta 1,4-GlcNAc(6S03) modulates
interleukin 12 production by macrophages in murine Thy-1
type autoimmune disease
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (27 MAY 2005) Vol. 280, No. 21, pp.
20879-20886.
ISSN: 0021-9258.
AU Xu H P; Kurihara H; Ito T; Kikuchi H; Yoshida K; Yamanokuchi H; Asari A
(Reprint)
AN 2005:568005 SCISEARCH

L38 ANSWER 9 OF 43 MEDLINE on STN DUPLICATE 3
TI Isolation and characterization of a novel immunomodulatory
alpha-glucan-protein complex from the mycelium of Tricholoma matsutake in
basidiomycetes.
SO Journal of agricultural and food chemistry, (2005 Nov 16) Vol. 53, No. 23,
pp. 8948-56.
Journal code: 0374755. ISSN: 0021-8561.
AU Hoshi Hirotaka; Yagi Yoko; Iijima Hiroko; Matsunaga Kenichi; Ishihara
Yoko; Yasuhara Tadashi
AN 2005624490 MEDLINE

L38 ANSWER 10 OF 43 MEDLINE on STN DUPLICATE 4
TI Characterization of the Helicobacter pylori **cysteine-**
rich protein A as a T-helper cell type 1 polarizing agent.
SO Infection and immunity, (2005 Aug) Vol. 73, No. 8, pp. 4732-42.
Journal code: 0246127. ISSN: 0019-9567.
AU Deml Ludwig; Aigner Michael; Decker Jochen; Eckhardt Alexander; Schutz
Christian; Mittl Peer R E; Barabas Sascha; Denk Stefanie; Knoll Gertrud;
Lehn Norbert; Schneider-Brachert Wulf
AN 2005382330 MEDLINE

L38 ANSWER 11 OF 43 MEDLINE on STN DUPLICATE 5
TI Gammadelta T cell function varies with the expressed WC1 coreceptor.
SO Journal of immunology (Baltimore, Md. : 1950), (2005 Mar 15) Vol. 174, No.
6, pp. 3386-93.
Journal code: 2985117R. ISSN: 0022-1767.
AU Rogers Aric N; Vanburen Denille G; Hedblom Emmett E; Tilahun Mulualem E;
Telfer Janice C; Baldwin Cynthia L
AN 2005119286 MEDLINE

L38 ANSWER 12 OF 43 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 6
TI Cytokine induction by the hepatitis B virus capsid in macrophages is
facilitated by membrane heparan sulfate and involves TLR2.
SO Journal of Immunology, (SEP 1 2005) Vol. 175, No. 5, pp. 3165-3176.
CODEN: JOIMA3. ISSN: 0022-1767.
AU Cooper, Arik; Tal, Guy; Lider, Ofer; Shaul, Yosef [Reprint Author]
AN 2006:4557 BIOSIS

L38 ANSWER 13 OF 43 MEDLINE on STN DUPLICATE 7
TI Function of ruminant gammadelta T cells is defined by WC1.1 or WC1.2
isoform expression.
SO Veterinary immunology and immunopathology, (2005 Oct 18) Vol. 108, No.
1-2, pp. 211-7.
Journal code: 8002006. ISSN: 0165-2427.
AU Rogers Aric N; VanBuren Denille G; Hedblom Emmett; Tilahun Mulualem E;
Telfer Janice C; Baldwin Cynthia L
AN 2005498688 MEDLINE

L38 ANSWER 14 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI New chimeric protein comprising zinc finger domains and a heterologous

protein transduction domain, useful in preparing a composition for treating a subject having or being suspected of having neoplastic or inflammatory disorder;

a pharmaceutical composition comprising a chimeric DNA binding protein useful for alteration of expression of vascular endothelial cell growth factor

AU KIM J; SHIN H; KWON H
AN 2005-02687 BIOTECHDS
PI WO 2004108883 16 Dec 2004

L38 ANSWER 15 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI New isolated, recombinant or non-naturally occurring polypeptide, useful in detecting or inducing an immune response against human EpCAM for treating cancer;
involving vector-mediated gene transfer and expression in host cell for gene therapy

AU PUNNONEN J; APT D; NEIGHBORS M; LEONG S R
AN 2004-26516 BIOTECHDS
PI WO 2004093808 4 Nov 2004

L38 ANSWER 16 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI New nucleic acid encoding canine receptor activator of NF-KB ligand (RANKL), useful in preparing a vaccine for down-regulating RANKL activity in an mammal for treating or preventing e.g., osteoporosis;
involving vector-mediated gene transfer and expression in host cell for use in therapy

AU MATTSON J D; MCCLANAHAN T
AN 2004-17409 BIOTECHDS
PI WO 2004052233 24 Jun 2004

L38 ANSWER 17 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Composition useful for treating tumors, e.g. melanoma, glioma, meningioma, or neuroblastoma, comprises a fusion polypeptide, a nucleic acid molecule encoding a fusion polypeptide or an antigen bearing target;
involving vector-mediated gene transfer and expression in prokaryotic, eukaryotic, yeast, mammal and insect host cell for cancer vaccine and gene therapy

AU SEGAL A H; YOUNG E
AN 2004-10480 BIOTECHDS
PI WO 2004018698 4 Mar 2004

L38 ANSWER 18 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing a **serine-rich** foreign protein (e.g. leptin) comprises culturing Escherichia coli containing a cysteine synthase gene and a gene encoding the foreign protein in a culture medium, and harvesting the foreign protein;
vector-mediated cysteine-synthase gene transfer and expression in host cell for recombinant protein production

AU LEE S Y; HAN M
AN 2004-20892 BIOTECHDS
PI US 2004157290 12 Aug 2004

L38 ANSWER 19 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 13
TI Analysis of genetic information contained in peripheral blood for diagnosis, prognosis and monitoring treatment of allergy, infection and genetic disease in human

SO U.S. Pat. Appl. Publ., 155 pp., Cont.-in-part of U.S. Ser. No. 802,875.
CODEN: USXXCO

IN Liew, Choong-Chin
AN 2005:139369 HCAPLUS
DN 142:175392

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 2004241726	A1	20041202	US 2004-812707	20040330
	US 2004014059	A1	20040122	US 2002-268730	20021009

US 2005191637	A1	20050901	US 2004-803737	20040318
US 2005196762	A1	20050908	US 2004-803759	20040318
US 2005196763	A1	20050908	US 2004-803857	20040318
US 2005196764	A1	20050908	US 2004-803858	20040318
US 2005208505	A1	20050922	US 2004-803648	20040318
US 2004241726	A1	20041202	US 2004-812707	20040330

L38 ANSWER 20 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI DNA microarray analysis of gene expression in the diagnosis of estrogen
 receptor positive- and negative-breast cancer
 SO PCT Int. Appl., 226 pp.
 CODEN: PIXXD2
 IN Erlander, Mark G.; Ma, Xiao-Jun; Wang, Wei; Wittliff, James L.
 AN 2004:838610 HCAPLUS
 DN 141:312238

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004079014	A2	20040916	WO 2002-XA2004006736	20040304
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	WO 2004079014	A2	20040916	WO 2004-US6736	20040304
	WO 2004079014	A3	20050331		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

L38 ANSWER 21 OF 43 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI New composition, useful preparing a pharmaceutical composition or a reagent for the diagnosis of tuberculosis.
 PI WO 2004099771 A1 20041118 (200481)* EN 65 G01N033-50
 RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
 IN ANDERSEN, P; BROCK, I; WELDINGH, K

L38 ANSWER 22 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Dysfunction of macrophages in metallothionein-knock out mice
 SO Journal of UOEH (2004), 26(2), 193-205
 CODEN: JOUOD4; ISSN: 0387-821X
 AU Sugiura, Tsutomu; Kuroda, Etsushi; Yamashita, Uki
 AN 2004:672907 HCAPLUS
 DN 141:348732

L38 ANSWER 23 OF 43 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
 TI From pattern recognition receptor to regulator of homeostasis: The double-faced macrophage mannose receptor

SO CRITICAL REVIEWS IN IMMUNOLOGY, (2004) Vol. 24, No. 3, pp. 179-192.
ISSN: 1040-8401.

AU Allavena P (Reprint); Chieppa M; Monti P; Piemonti L
AN 2004:955603 SCISEARCH

L38 ANSWER 24 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Composition comprising fragments from interleukin (IL)-
12 p40 and IL-B30 polypeptides is useful to enhance anti-viral,
anti-tumor and vaccine effects and to antagonize allergic responses;
for use in cancer, virus infection, allergy, autoimmune disease,
multiple sclerosis, psoriasis, chronic inflammatory, rheumatoid
arthritis and inflammatory bowel disease therapy

AU OPPMANN B; DE WAAL MALEFYT R; RENNICK D M; KASTELEIN R A; WIEKOWSKI M T;
LIRA S A; NARULA S K
AN 2004-03959 BIOTECHDS
PI US 2003162261 28 Aug 2003

L38 ANSWER 25 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Composition comprising peptide derivative of human protamine 2 conjugated
to a hydrophobic group, and mixture comprising the conjugate and nucleic
acid, useful for transfecting mammalian cells;
vector-mediated gene transfer and expression in host cell for gene
therapy

AU MAHATO R I; MAHESHWARI A; KIM S W
AN 2003-10968 BIOTECHDS
PI WO 2003004685 16 Jan 2003

L38 ANSWER 26 OF 43 MEDLINE on STN DUPLICATE 15
TI Engineering Escherichia coli for increased productivity of **serine**
-rich proteins based on proteome profiling.

SO Applied and environmental microbiology, (2003 Oct) Vol. 69, No. 10, pp.
5772-81.
Journal code: 7605801. ISSN: 0099-2240.

AU Han Mee-Jung; Jeong Ki Jun; Yoo Jong-Shin; Lee Sang Yup
AN 2003497591 MEDLINE

L38 ANSWER 27 OF 43 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI Cross-linking of the mannose receptor on monocyte-derived dendritic cells
activates an anti-inflammatory immunosuppressive program

SO JOURNAL OF IMMUNOLOGY, (1 NOV 2003) Vol. 171, No. 9, pp. 4552-4560.
ISSN: 0022-1767.

AU Chieppa M; Bianchi G; Doni A; Del Prete A; Sironi M; Laskarin G; Monti P;
Piemonti L; Biondi A; Mantovani A; Introna M; Allavena P (Reprint)
AN 2003:940733 SCISEARCH

L38 ANSWER 28 OF 43 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights
reserved on STN
TI OM197-MP-AC induces the maturation of human dendritic cells and promotes a
primary T cell response.

SO International Immunopharmacology, (2003) Vol. 3, No. 3, pp. 417-425. .
Refs: 19
ISSN: 1567-5769 CODEN: IINMBA

AU Byl B.; Libin M.; Bauer J.; Martin O.R.; De Wit D.; Davies G.; Goldman M.;
Willems F.
AN 2003106238 EMBASE

L38 ANSWER 29 OF 43 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights
reserved on STN DUPLICATE 16
TI Structure and characterization of hamster IL-12 p35
and p40.

SO Molecular Immunology, (2003) Vol. 40, No. 6, pp. 319-326. .
Refs: 25
ISSN: 0161-5890 CODEN: IMCHAZ

AU Maruyama K.; Takigawa Y.; Akiyama Y.; Hojo T.; Nara-Ashizawa N.; Cheng

J.-Y.; Watanabe M.; Yamaguchi K.
AN 2003391994 EMBASE

L38 ANSWER 30 OF 43 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN DUPLICATE 17
TI Molecular modeling of a Leishmania antigen eIF-4A: Identification of a potential epitope implicated in the adjuvant effect.
SO Journal of Biomolecular Structure and Dynamics, (2003) Vol. 21, No. 1, pp. 43-53. .
Refs: 31
ISSN: 0739-1102 CODEN: JBSDD6
AU Hamza A.; Kebaier C.; Vasilescu D.; Guizani I.; Dellagi K.; Sarma M.H.; Sarma R.H.
AN 2003333372 EMBASE

L38 ANSWER 31 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Novel antibody or its portion which specifically binds to two tumor necrosis factor receptor-related protein splice variants, TR11SV1 and TR11SV2, useful for treating autoimmune hemolytic anemia, and Goodpasture's syndrome;
vector-mediated gene transfer and expression in host cell for recombinant protein production and gene therapy
AU NI J; RUBEN S M
AN 2003-02546 BIOTECHDS
PI US 2002098525 25 Jul 2002

L38 ANSWER 32 OF 43 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Treating or preventing disease or condition e.g. cancer, with angiogenic component comprises administering liposome encapsulated chemotherapeutic agent.
PI WO 2002089772 A1 20021114 (200306)* EN 47 A61K009-127
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
US 2003082228 A1 20030501 (200331) A61K009-127
AU 2002256504 A1 20021118 (200452) A61K009-127
IN BURGE, C T R; FLOWERS, C; HASRASYSM, T O; SALTMAN, D; TAM, P M S; HARASYM, T O

L38 ANSWER 33 OF 43 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Feline interleukin 18 (IL-18), feline caspase-1, feline IL-12 single chain and canine IL-12 single chain proteins, useful for treating and preventing autoimmune diseases, inflammatory diseases and/or graft rejection in animals.
PI US 2002052030 A1 20020502 (200261)* 106 C12N009-00
US 6818444 B2 20041116 (200475) C12N015-00
IN BOROUGHS, K L; WONDERLING, R S

L38 ANSWER 34 OF 43 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI The biological function of Helicobacter cystein-rich protein A (HcpA) is IL-12 dependent and located at the carboxyterminus.
SO Gut, (September, 2002) Vol. 51, No. Supplement 2, pp. A21-A22. print.
Meeting Info.: XVth International Workshop on Gastrointestinal Pathology and Helicobacter. Athens, Greece. September 11-14, 2002.
CODEN: GUTTAK. ISSN: 0017-5749.
AU Aigner, M. [Reprint author]; Decker, J. [Reprint author]; Deml, L. [Reprint author]; Knoll, G. [Reprint author]; Lehn, N. [Reprint author]; Schneider-Brachert, W. [Reprint author]
AN 2002:586406 BIOSIS

L38 ANSWER 35 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Pharmaceutical composition for treating and preventing human tumors, which express the tumor antigen mucin and/or the carcinoembryonic antigen (CEA), and the use thereof
 SO PCT Int. Appl., 11 pp.
 CODEN: PIXXD2
 IN Pecher, Gabriele
 AN 2001:265281 HCAPLUS
 DN 134:300757

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001024832	A2	20010412	WO 2000-DE3443	20000926
WO 2001024832	A3	20020418		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
DE 10048710	A1	20011004	DE 2000-10048710	20000926
EP 1409534	A2	20040421	EP 2000-982945	20000926
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY			

L38 ANSWER 36 OF 43 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
 TI Oral supplementation with whey proteins increases plasma glutathione levels of HIV-infected patients.
 SO European Journal of Clinical Investigation, (February, 2001) Vol. 31, No. 2, pp. 171-178. print.
 CODEN: EJCIB8. ISSN: 0014-2972.
 AU Micke, P. [Reprint author]; Beeh, K. M.; Schlaak, J. F.; Buhl, R.
 AN 2001:177981 BIOSIS

L38 ANSWER 37 OF 43 MEDLINE on STN DUPLICATE 19
 TI A subunit vaccine candidate region of the Entamoeba histolytica galactose-adherence lectin promotes **interleukin-12** gene transcription and protein production in human macrophages.
 SO European journal of immunology, (2000 Feb) Vol. 30, No. 2, pp. 423-30. Journal code: 1273201. ISSN: 0014-2980.
 AU Campbell D; Mann B J; Chadee K
 AN 2000135844 MEDLINE

L38 ANSWER 38 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Gene probes used for genetic profiling in healthcare screening and planning
 SO PCT Int. Appl., 745 pp.
 CODEN: PIXXD2
 IN Roberts, Gareth Wyn
 AN 1999:795994 HCAPLUS
 DN 132:31744

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9964627	A2	19991216	WO 1999-GB1780	19990604
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,			

CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

L38 ANSWER 39 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Gene probes used for genetic profiling in healthcare screening and planning

SO PCT Int. Appl., 149 pp.
CODEN: PIXXD2

IN Roberts, Gareth Wyn

AN 1999:795993 HCAPLUS

DN 132:31743

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9964626	A2	19991216	WO 1999-GB1779	19990604
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2330929	AA	19991216	CA 1999-2330929	19990604
AU 9941586	A1	19991230	AU 1999-41586	19990604
AU 766544	B2	20031016		
AU 9941587	A1	19991230	AU 1999-41587	19990604
GB 2339200	A1	20000119	GB 1999-12914	19990604
GB 2339200	B2	20010912		
EP 1084273	A1	20010321	EP 1999-925207	19990604
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2003528564	T2	20030930	JP 2000-553616	19990604
US 2003198970	A1	20031023	US 2002-206568	20020729

L38 ANSWER 40 OF 43 MEDLINE on STN

DUPLICATE 20

TI Cyclophilin C-associated protein: a normal secreted glycoprotein that down-modulates endotoxin and proinflammatory responses in vivo.

SO Proceedings of the National Academy of Sciences of the United States of America, (1999 Mar 16) Vol. 96, No. 6, pp. 3006-11.
Journal code: 7505876. ISSN: 0027-8424.

AU Trahey M; Weissman I L

AN 1999179005 MEDLINE

L38 ANSWER 41 OF 43 MEDLINE on STN

DUPLICATE 21

TI Molecular cytogenetic delineation of the critical deleted region in the 5q- syndrome.

SO Genes, chromosomes & cancer, (1998 Jul) Vol. 22, No. 3, pp. 251-6.
Journal code: 9007329. ISSN: 1045-2257.

AU Jaju R J; Boultonwood J; Oliver F J; Kostrzewa M; Fidler C; Parker N; McPherson J D; Morris S W; Muller U; Wainscoat J S; Kearney L

AN 1998287633 MEDLINE

L38 ANSWER 42 OF 43 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN

TI Search of sequence databases with uninterpreted high-energy collision-induced dissociation spectra of peptides.

SO Journal of the American Society for Mass Spectrometry, (1996) Vol. 7, No. 11, pp. 1089-1098.
ISSN: 1044-0305 CODEN: JAMSEF

AU Yates III J.R.; Eng J.K.; Clauser K.R.; Burlingame A.L.

AN 96328113 EMBASE

L38 ANSWER 43 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Regulators of angiogenesis

SO Nippon Yakurigaku Zasshi (1996), 107(3), 109-17

CODEN: NYKZAU; ISSN: 0015-5691

AU Sato, Yasufumi

AN 1996:151703 HCAPLUS

DN 124:227423

=> d ab 29,33,42

L38 ANSWER 29 OF 43 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN DUPLICATE 16

AB Complementary DNAs coding for two subunits of hamster interleukin -12 (IL-12), p35 and p40, were cloned from a hamster dendritic cell (DC) cDNA library. The cloning demonstrated that hamster IL-12 consisted of a p35 subunit with 216 amino acid (aa) residues and a p40 subunit with 327 aa. Structural comparison of hamster p35 and p40 at the protein level showed the highest homologies with each counterpart of sigmodon (hispid cotton rat). The gene expressions of hamster IL-12 p35 and p40 in bone marrow (BM) cells cultured in the presence of mouse granulocyte macrophage-colony-stimulating factor (mGM-CSF) and IL-4 were up-regulated during culture. Immunoblot analysis of 293 cells transfected with hamster p35 and p40 expression vectors suggested the presence of a covalently linked p35/p40 heterodimer. Furthermore, supernatant from the 293 cells transfected with both expression vectors induced the up-regulation of interferon-gamma (IFN- γ) mRNA in hamster splenocytes, indicating that the p35/p40 heterodimer IL-12 protein present in the supernatant was functional. These results suggest that the vectors containing hamster IL-12 cDNA might be suitable tools for developing an immunotherapeutic approach against experimental cancer in a hamster model. .COPYRG. 2003 Elsevier Ltd. All rights reserved.

L38 ANSWER 33 OF 43 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

AB US2002052030 A UPAB: 20050107

NOVELTY - Feline interleukin 18 (IL-18), feline caspase-1, feline IL-12 single chain and canine IL-12 single chain proteins are new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) an isolated nucleic acid (N1) selected from:

(a) an isolated nucleic acid molecule selected from:

(i) a nucleic acid comprising a sequence (R1) selected from the 514 (S1), 514 (S3), 502 (S4), 502 (S6), 607 (S7), 607 (S10), 576 (S9), 576 (S41), 471 (S11), 471 (S13), 1233 (S14), 1233 (S16), 526 (S17), 526 (S14), 500 (S20), 500 (S22), 1230 (S23) or 1230 (S25) nucleotide sequence defined in the specification;

(ii) a nucleic acid comprising at least 70 contiguous nucleotides identical in sequence to at least 70 contiguous nucleotides of R1;

(b) an isolated nucleic acid molecule selected from:

(i) an isolated nucleic acid (R2) comprising a sequence selected from the 921 (S26) or 987 (S29) sequence defined in the specification, a nucleic acid sequence comprising at least 44 contiguous nucleotides identical in sequence to at least 44 contiguous nucleotides of a sequence selected from S26 and S29, a nucleic acid linker of (XXX) n where $n=0$ to 60, an isolated nucleic acid molecule comprising a sequence selected from the 666 (S32) or 591 (S35) sequence defined in the specification, or a nucleic acid molecule comprising at least 44 contiguous nucleotides identical in sequence to at least 44 contiguous nucleotides of a nucleic acid sequence selected from the group consisting of S32 and S35, such that the nucleic acid molecule encodes a feline IL-12 single chain protein; or

(ii) a nucleic acid comprising a sequence fully complementary to the coding strand of (i);

(c) an isolated nucleic acid molecule selected from:

(i) an isolated nucleic acid (R3) comprising a sequence selected from the 921 (S52) or 987 (S58) sequence defined in the specification, a

nucleic acid sequence comprising at least 47 contiguous nucleotides identical in sequence to at least 47 or 55 contiguous nucleotides of a sequence selected from S26 and S29, a nucleic acid linker of (XXX)_n where n=0 to 60, an isolated nucleic acid molecule comprising a sequence selected from the 666 (S46) or 666 (S49) sequence defined in the specification, or a nucleic acid molecule comprising at least 44 contiguous nucleotides identical in sequence to at least 44 or 55 contiguous nucleotides of a nucleic acid sequence selected from the group consisting of S46 and S49, such that the nucleic acid molecule encodes a canine IL-12 single chain protein; or

(ii) a nucleic acid comprising a sequence fully complementary to the coding strand of (i);

(d) an isolated nucleic acid molecule selected from:

(i) a nucleic acid having a sequence that is at least 92 percent identical to a sequence selected from R1;

(ii) a nucleic acid comprising a fragment of (i) where the fragment is at least 80 or 85 nucleotides in length;

(e) an isolated nucleic acid molecule selected from:

(i) a nucleic acid comprising a sequence that is at least 87 percent identical to R1; or

(ii) a nucleic acid comprising a sequence fully complementary to the coding strand of the nucleic acid of (i);

(f) a nucleic acid encoding an IL-18 protein selected from:

(i) a protein having an amino acid sequence that is at least 92 percent identical to an amino acid sequence (R3) selected from the 133 (S2), 154 (S5), 192 (S8) or 157 (S12) amino acid sequence defined in the specification, or its fragments (where the fragment is at least 30 amino acids in length), or

(ii) a protein comprising at least 25 contiguous amino acids identical in sequence to at least 25 contiguous amino acids of a sequence selected from R3;

(g) a nucleic acid encoding a caspase-1 protein selected from:

(i) a protein having an amino acid sequence that is at least 85 percent identical to an amino acid sequence (R4) selected from the 410 (S15), 169 (S18), 120 (S21) or 410 (S24) amino acid sequence defined in the specification, or its fragments (where the fragment is at least 30 amino acids in length), or

(ii) a protein comprising at least 25 contiguous amino acids identical in sequence to at least 25 contiguous amino acids of a sequence selected from R4;

(h) a nucleic acid encoding an IL-12 single chain protein comprising an IL-12 p40 subunit domain linked to a IL-12 p35 subunit domain; or

(i) a nucleic acid molecule comprising a sequence fully complementary to the coding strand of any sequence selected from (a) to (h).

(2) a recombinant molecule comprising N1;

(3) a recombinant virus comprising N1;

(4) a recombinant cell comprising N1;

(5) a method to regulate an immune response comprising administering to an animal a composition comprising N1;

(6) a method to produce a protein comprising culturing the recombinant cell of (4);

(7) an isolated protein (P1) selected from:

(a) an IL-18 protein selected from:

(i) a protein having an amino acid sequence that is at least 92 percent identical to an amino acid sequence selected from R3, or its fragments (where the fragment is at least 30 amino acids in length), or

(ii) a protein comprising at least 25 contiguous amino acids identical in sequence to at least 25 contiguous amino acids of a sequence selected from R3;

(b) a caspase-1 protein selected from:

(i) a protein having an amino acid sequence that is at least 85 percent identical to an amino acid sequence selected from R4, or its fragments (where the fragment is at least 30 amino acids in length), or

(ii) a protein comprising at least 25 contiguous amino acids

identical in sequence to at least 25 contiguous amino acids of a sequence selected from R4; or

(c) an isolated IL-12 single chain protein comprising an IL-12 p40 subunit domain linked to an IL-12 p35 subunit domain;

(8) an isolated antibody that selectively binds to P1;

(9) a composition comprising an excipient and a compound selected from the P1, a mimetope of P1, a multimeric form of P1, an antibody that selectively binds to P1, or an inhibitor identified by its ability to inhibit the activity of P1;

(10) a method to produce a protein, comprising culturing a recombinant cell capable of expressing P1; and

(11) a method (M1) to identify a compound capable of regulating an immune response in an animal.

ACTIVITY - Immunosuppressive; antiallergic; cytostatic; antiinflammatory; antimicrobial.

No biological data given.

MECHANISM OF ACTION - Gene therapy.

No biological data given.

USE - A composition comprising a feline IL-18, feline caspase-1, feline IL-12 single chain or canine IL-12 single chain proteins, a nucleic acid encoding these proteins, mimetopes of these proteins, multimeric forms of these proteins, an antibody against these proteins, or an inhibitor identified by its ability to inhibit the activity of these proteins, can be used to treat or prevent autoimmune diseases, allergic reactions, infectious diseases, tumor development, inflammatory diseases and/or graft rejection in animals.

Dwg.0/0

L38 ANSWER 42 OF 43 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN

AB We have broadened the utility of the SEQUEST computer algorithm to permit correlation of uninterpreted high-energy collision-induced dissociation spectra of peptides with all sequences in a database. SEQUEST now allows for the additional fragment ion types observed under high-energy conditions. We analyzed spectra from peptides isolated following trypsin digestion of 13 proteins. SEQUEST ranked the correct sequence first for 90% (18/20) of the spectra in searches of the OWL database, without constraint by enzyme cleavage specificity or species of origin. All false-positives were flagged by the scoring system. SEQUEST searches databases for sequences that correspond to the precursor ion mass ± 0.5 u. Preliminary ranking of the top 500 candidates is done by calculation of fragment ion masses for each sequence, and comparison to the measured ion masses on the basis of ion series continuity, summed ion intensity, and immonium ion presence. Final ranking is done by construction of model spectra for the 500 candidates and constructing/performing of a cross-correlation analysis with the actual spectrum. Given the need to relate mounting genome sequence information with corresponding suites of proteins that comprise the cellular molecular machinery, tandem mass spectrometry appears destined to play the leading role in accelerating protein identification on the large scale required.

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

202.93

203.14

STN INTERNATIONAL LOGOFF AT 17:02:56 ON 15 MAR 2006

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 18:04:26 ON 15 MAR 2006

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 18:04:33 ON 15 MAR 2006
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s cysk or cysteine synthase# or cys k
FILE 'MEDLINE'

77 CYSK
64950 CYSTEINE
92494 SYNTHASE#
228 CYSTEINE SYNTHASE#
(CYSTEINE (W) SYNTHASE#)
13014 CYS
262083 K
5 CYS K
(CYS (W) K)

L1 270 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'SCISEARCH'

52 CYSK
47434 CYSTEINE
107943 SYNTHASE#
200 CYSTEINE SYNTHASE#
(CYSTEINE (W) SYNTHASE#)
13341 CYS
639296 K
5 CYS K
(CYS (W) K)

L2 238 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'LIFESCI'

48 CYSK
18083 "CYSTEINE"
23974 SYNTHASE#
88 CYSTEINE SYNTHASE#
("CYSTEINE" (W) SYNTHASE#)
6246 "CYS"
88069 "K"
5 CYS K
("CYS" (W) "K")

L3 125 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'BIOTECHDS'

51 CYSK
4207 CYSTEINE
6084 SYNTHASE#
59 CYSTEINE SYNTHASE#
(CYSTEINE (W) SYNTHASE#)
2696 CYS
9421 K
3 CYS K
(CYS (W) K)

L4 82 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'BIOSIS'

76 CYSK
59166 CYSTEINE
99829 SYNTHASE#
217 CYSTEINE SYNTHASE#
(CYSTEINE (W) SYNTHASE#)
14029 CYS

```

267312 K
12 CYS K
(CYS(W) K)
L5      279 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'EMBASE'
58 CYSK
49498 "CYSTEINE"
90605 SYNTHASE#
194 CYSTEINE SYNTHASE#
(CYSTEINE(W) SYNTHASE#)
11600 "CYS"
260888 "K"
6 CYS K
("CYS" (W) "K")
L6      229 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'HCAPLUS'
175 CYSK
100080 CYSTEINE
94906 SYNTHASE#
359 CYSTEINE SYNTHASE#
(CYSTEINE(W) SYNTHASE#)
19777 CYS
1351798 K
5 CYS K
(CYS(W) K)
L7      456 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'NTIS'
0 CYSK
490 CYSTEINE
232 SYNTHASE#
0 CYSTEINE SYNTHASE#
(CYSTEINE(W) SYNTHASE#)
70 CYS
52295 K
0 CYS K
(CYS(W) K)
L8      0 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'ESBIOBASE'
41 CYSK
23797 CYSTEINE
44390 SYNTHASE#
96 CYSTEINE SYNTHASE#
(CYSTEINE(W) SYNTHASE#)
8427 CYS
122903 K
4 CYS K
(CYS(W) K)
L9      126 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'BIOTECHNO'
43 CYSK
22339 CYSTEINE
29457 SYNTHASE#
130 CYSTEINE SYNTHASE#
(CYSTEINE(W) SYNTHASE#)
7657 CYS
84757 K
4 CYS K
(CYS(W) K)
L10     155 CYSK OR CYSTEINE SYNTHASE# OR CYS K

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FILE 'WPIDS'
    44 CYSK
    8451 CYSTEINE
    4998 SYNTHASE#
    43 CYSTEINE SYNTHASE#
        (CYSTEINE (W) SYNTHASE#)
    5099 CYS
    128310 K
    5 CYS K
        (CYS (W) K)
L11      63 CYSK OR CYSTEINE SYNTHASE# OR CYS K

TOTAL FOR ALL FILES
L12      2023 CYSK OR CYSTEINE SYNTHASE# OR CYS K

=> s l12 and coli
FILE 'MEDLINE'
    249439 COLI
L13      94 L1 AND COLI

FILE 'SCISEARCH'
    228507 COLI
L14      112 L2 AND COLI

FILE 'LIFESCI'
    98566 COLI
L15      45 L3 AND COLI

FILE 'BIOTECHDS'
    45798 COLI
L16      47 L4 AND COLI

FILE 'BIOSIS'
    276935 COLI
L17      71 L5 AND COLI

FILE 'EMBASE'
    177426 COLI
L18      68 L6 AND COLI

FILE 'HCAPLUS'
    266744 COLI
L19      158 L7 AND COLI

FILE 'NTIS'
    2811 COLI
L20      0 L8 AND COLI

FILE 'ESBIOBASE'
    69062 COLI
L21      40 L9 AND COLI

FILE 'BIOTECHNO'
    94549 COLI
L22      60 L10 AND COLI

FILE 'WPIDS'
    18950 COLI
L23      18 L11 AND COLI

TOTAL FOR ALL FILES
L24      713 L12 AND COLI

=> s l12(10a) (gene/q or polynucleotide# or nucleic or dna)
FILE 'MEDLINE'

```

9646 POLYNUCLEOTIDE#
 180990 NUCLEIC
 844105 DNA
 L25 57 L1 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'SCISEARCH'
 4272 POLYNUCLEOTIDE#
 36280 NUCLEIC
 596501 DNA
 L26 46 L2 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'LIFESCI'
 2065 POLYNUCLEOTIDE#
 13623 NUCLEIC
 273320 DNA
 L27 49 L3 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'BIOTECHDS'
 20597 POLYNUCLEOTIDE#
 48632 NUCLEIC
 141531 DNA
 L28 54 L4 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'BIOSIS'
 7472 POLYNUCLEOTIDE#
 52819 NUCLEIC
 1123867 DNA
 L29 73 L5 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'EMBASE'
 3855 POLYNUCLEOTIDE#
 36698 NUCLEIC
 633493 DNA
 L30 41 L6 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'HCAPLUS'
 21127 POLYNUCLEOTIDE#
 180141 NUCLEIC
 760795 DNA
 L31 233 L7 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'NTIS'
 134 POLYNUCLEOTIDE#
 1829 NUCLEIC
 9255 DNA
 L32 0 L8 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'ESBIOBASE'
 896 POLYNUCLEOTIDE#
 26979 NUCLEIC
 280090 DNA
 L33 42 L9 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'BIOTECHNO'
 1566 POLYNUCLEOTIDE#
 19939 NUCLEIC
 388151 DNA
 L34 43 L10 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'WPIDS'
 25658 POLYNUCLEOTIDE#
 60402 NUCLEIC
 69416 DNA
 L35 45 L11 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

TOTAL FOR ALL FILES

L36 683 L12 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

=> s l24 and l36

FILE 'MEDLINE'

L37 30 L13 AND L25

FILE 'SCISEARCH'

L38 34 L14 AND L26

FILE 'LIFESCI'

L39 24 L15 AND L27

FILE 'BIOTECHDS'

L40 31 L16 AND L28

FILE 'BIOSIS'

L41 34 L17 AND L29

FILE 'EMBASE'

L42 20 L18 AND L30

FILE 'HCAPLUS'

L43 124 L19 AND L31

FILE 'NTIS'

L44 0 L20 AND L32

FILE 'ESBIOBASE'

L45 18 L21 AND L33

FILE 'BIOTECHNO'

L46 21 L22 AND L34

FILE 'WPIDS'

L47 8 L23 AND L35

TOTAL FOR ALL FILES

L48 344 L24 AND L36

=> s l48 not 2004-2006/py

FILE 'MEDLINE'

1340609 2004-2006/PY
(20040000-20069999/PY)

L49 26 L37 NOT 2004-2006/PY

FILE 'SCISEARCH'

2454856 2004-2006/PY
(20040000-20069999/PY)

L50 29 L38 NOT 2004-2006/PY

FILE 'LIFESCI'

189530 2004-2006/PY

L51 22 L39 NOT 2004-2006/PY

FILE 'BIOTECHDS'

57568 2004-2006/PY

L52 26 L40 NOT 2004-2006/PY

FILE 'BIOSIS'

1037088 2004-2006/PY

L53 31 L41 NOT 2004-2006/PY

FILE 'EMBASE'

1128493 2004-2006/PY

L54 18 L42 NOT 2004-2006/PY

FILE 'HCAPLUS'

2560325 2004-2006/PY

L55 65 L43 NOT 2004-2006/PY

FILE 'NTIS'

26131 2004-2006/PY

L56 0 L44 NOT 2004-2006/PY

FILE 'ESBIOBASE'

671688 2004-2006/PY

L57 15 L45 NOT 2004-2006/PY

FILE 'BIOTECHNO'

586 2004-2006/PY

L58 21 L46 NOT 2004-2006/PY

FILE 'WPIDS'

2523867 2004-2006/PY

L59 2 L47 NOT 2004-2006/PY

TOTAL FOR ALL FILES

L60 255 L48 NOT 2004-2006/PY

=> dup rem l60

PROCESSING COMPLETED FOR L60

L61 101 DUP REM L60 (154 DUPLICATES REMOVED)

=> d tot

L61 ANSWER 1 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine, by fermenting microorganisms
of Enterobacteriaceae family in which talB gene is enhanced, preferably
over-expressed, and isolating L-amino acid from the culture medium;
vector-mediated gene transfer and expression in host cell for strain
improvement and L-amino acid preparation

AU RIEPING M

AN 2003-11500 BIOTECHDS

PI WO 2003008611 30 Jan 2003

L61 ANSWER 2 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Producing L-amino acids, in particular L-threonine, by fermenting
microorganisms of Enterobacteriaceae family in which genes iclR and fadR
are enhanced, in particular over-expressed and isolating the L-amino
acid;

vector-mediated gene transfer and expression in host cell for strain
improvement and amino acid preparation

AU RIEPING M; SIEBELT N

AN 2003-18376 BIOTECHDS

PI WO 2003038106 8 May 2003

L61 ANSWER 3 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine, by fermenting microorganisms
of Enterobacteriaceae family in which the aceK gene is attenuated, in
particular eliminated, and isolating L-amino acid from culture medium;
vector-mediated gene transfer and expression in host cell for strain
improvement and L-amino acid preparation

AU HERMANN T

AN 2003-11502 BIOTECHDS

PI WO 2003008616 30 Jan 2003

L61 ANSWER 4 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, in particular L-threonine, by fermenting
microorganisms of Enterobacteriaceae family in which genes such as succ

and sucD, are enhanced, in particular over-expressed and isolating L-amino acid;

involving vector-mediated phoE gene transfer and expression in host cell and fermentation for use in foodstuff and pharmaceutical industry

AU RIEPING M
AN 2003-11686 BIOTECHDS
PI WO 2003008615 30 Jan 2003

L61 ANSWER 5 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, in particular L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which genes such as sucA and sucB, are enhanced, in particular over-expressed and isolating L-amino acid;

vector-mediated gene transfer and expression in host cell for strain improvement and L-amino acid preparation

AU RIEPING M
AN 2003-11501 BIOTECHDS
PI WO 2003008614 30 Jan 2003

L61 ANSWER 6 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, in particular L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which superoxide dismutase gene, is enhanced, in particular over-expressed, and isolating L-amino acid;

vector-mediated gene transfer and expression in host cell for strain improvement and L-amino acid preparation

AU RIEPING M
AN 2003-11496 BIOTECHDS
PI WO 2003008613 30 Jan 2003

L61 ANSWER 7 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, especially L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which rseA, rseC genes are enhanced, preferably over-expressed and isolating amino acid from culture medium;

involving vector-mediated phoE gene transfer and expression in host cell and fermentation for use in foodstuff and pharmaceutical industry

AU RIEPING M
AN 2003-11685 BIOTECHDS
PI WO 2003008612 30 Jan 2003

L61 ANSWER 8 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which pfkB gene is enhanced, preferably over-expressed, and isolating L-amino acid from the culture medium;

vector-mediated gene transfer and expression in host cell for strain improvement and L-amino acid preparation

AU RIEPING M
AN 2003-11495 BIOTECHDS
PI WO 2003008610 30 Jan 2003

L61 ANSWER 9 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine by fermenting microorganisms of Enterobacteriaceae family in which at least the pykF gene is enhanced, in particular overexpressed, and isolating the desired amino acid;

vector-mediated phoE gene transfer and expression in host cell for use in L-amino-acid preparation

AU RIEPING M
AN 2003-11684 BIOTECHDS
PI WO 2003008609 30 Jan 2003

L61 ANSWER 10 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, in particular L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which phoE gene coding for protein E of outer cell membrane is enhanced and isolating L-amino acid;

vector-mediated phoE gene transfer and expression in host cell for use in L-amino-acid preparation

AU RIEPING M
AN 2003-11683 BIOTECHDS
PI WO 2003008608 30 Jan 2003

L61 ANSWER 11 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which phoB and/or phoR genes are enhanced, preferably over-expressed, isolating L-amino acid from culture medium;

vector-mediated gene transfer and expression in host cell for strain improvement and L-amino acid preparation

AU RIEPING M
AN 2003-11499 BIOTECHDS
PI WO 2003008606 30 Jan 2003

L61 ANSWER 12 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine by fermenting microorganisms of Enterobacteriaceae family in which at least the malE gene is enhanced, in particular overexpressed, and isolating the desired amino acid; L-amino acid production via bacterium fermentation

AU RIEPING M
AN 2003-11385 BIOTECHDS
PI WO 2003008605 30 Jan 2003

L61 ANSWER 13 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which the aceB gene is attenuated, in particular eliminated, and isolating L-amino acid from culture medium; involving Enterobacter sp. fermentation for use in pharmaceutical and food industry and as a food-additive

AU HERMANN T
AN 2003-11381 BIOTECHDS
PI WO 2003008604 30 Jan 2003

L61 ANSWER 14 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, in particular L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which the aspartate ammonium lyase gene, is attenuated or eliminated and isolating the L-amino acid;

L-amino acid production via bacterium fermentation

AU HERMANN T
AN 2003-11384 BIOTECHDS
PI WO 2003008603 30 Jan 2003

L61 ANSWER 15 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, in particular L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which ugpB gene is attenuated, in particular eliminated and isolating L-amino acid from culture medium;

L-amino acid production via bacterium fermentation useful for pharmaceutical and food industry

AU HERMANN T
AN 2003-11383 BIOTECHDS
PI WO 2003008602 30 Jan 2003

L61 ANSWER 16 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Genetically modified Escherichia coli for the fermentative production of threonine

SO PCT Int. Appl., 31 pp.
CODEN: PIXXD2

IN Rieping, Mechthild
AN 2003:76945 HCAPLUS
DN 138:118453

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2003008607	A2	20030130	WO 2002-EP7356	20020703
	WO 2003008607	A3	20031113		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10135053	A1	20030206	DE 2001-10135053	20010718
L61	ANSWER 17 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Fermentation of L-amino acids with Enterobacteriaceae overexpressing icd gene				
SO	Ger. Offen., 6 pp. CODEN: GWXXBX				
IN	Rieping, Mechthild; Hermann, Thomas; Farwick, Mike				
AN	2003:756744 HCAPLUS				
DN	139:260064				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 10210967	A1	20030925	DE 2002-10210967	20020313
L61	ANSWER 18 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Fermentation of L-amino acids with Enterobacteriaceae overexpressing the adk gene				
SO	Ger. Offen., 6 pp. CODEN: GWXXBX				
IN	Rieping, Mechthild; Hermann, Thomas				
AN	2003:756743 HCAPLUS				
DN	139:256297				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 10210961	A1	20030925	DE 2002-10210961	20020313
L61	ANSWER 19 OF 101 MEDLINE on STN DUPLICATE 2				
TI	Engineering Escherichia coli for increased productivity of serine-rich proteins based on proteome profiling.				
SO	Applied and environmental microbiology, (2003 Oct) Vol. 69, No. 10, pp. 5772-81. Journal code: 7605801. ISSN: 0099-2240.				
AU	Han Mee-Jung; Jeong Ki Jun; Yoo Jong-Shin; Lee Sang Yup				
AN	2003497591 MEDLINE				
L61	ANSWER 20 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Sulfur assimilation in soybean: molecular cloning and characterization of O-acetylserine (thiol) lyase (cysteine synthase)				
SO	Crop Science (2003), 43(5), 1819-1827 CODEN: CRPSAY; ISSN: 0011-183X				
AU	Chronis, Demosthenis; Krishnan, Hari B.				
AN	2003:780745 HCAPLUS				
DN	140:316910				
L61	ANSWER 21 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN				
TI	Purification, characterization and gene cloning of thermostable O-acetyl-L-serine sulphydrylase forming beta-cyano-L-alanine; plasmid-mediated gene transfer and expression in Escherichia coli for recombinant cysteine-synthase production for use in positron emission tomography and diagnosis				
SO	JOURNAL OF BIOSCIENCE AND BIOENGINEERING; (2003) 95, 5, 470-475 ISSN:				

1389-1723
 AU OMURA H; KURODA M; KOBAYASHI M; SHIMIZU S; YOSHIDA T; NAGASAWA T
 AN 2003-20737 BIOTECHDS

L61 ANSWER 22 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Semisynthetic production of unnatural L-alpha-amino acids by metabolic
 engineering of the cysteine-biosynthetic pathway;
 plasmid-mediated mutant serine-O-acetyltransferase and
 cysteine-synthase gene transfer and
 expression in *Escherichia coli* for acetylserine and cysteine
 production
 SO NATURE BIOTECHNOLOGY; (2003) 21, 4, 422-427 ISSN: 1087-0156
 AU MAIER THP
 AN 2003-10877 BIOTECHDS

L61 ANSWER 23 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Analysis of organic solvent tolerance in *Escherichia coli* using
 gene expression profiles from DNA microarrays
 SO Journal of Bioscience and Bioengineering (2003), 95(4), 379-383
 CODEN: JBBIF6; ISSN: 1389-1723
 AU Hayashi, Shuhei; Aono, Rikizo; Hanai, Taizo; Mori, Hirotada; Kobayashi,
 Takeshi; Honda, Hiroyuki
 AN 2003:474256 HCAPLUS
 DN 139:144711

L61 ANSWER 24 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Role of *Saccharomyces cerevisiae* serine O-acetyltransferase in cysteine
 biosynthesis
 SO FEMS Microbiology Letters (2003), 218(2), 291-297
 CODEN: FMLED7; ISSN: 0378-1097
 AU Takagi, Hiroshi; Yoshioka, Kenji; Awano, Naoki; Nakamori, Shigeru; Ono,
 Bun-ichiro
 AN 2003:105072 HCAPLUS
 DN 139:335177

L61 ANSWER 25 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI New *cysD*, *N*, *K*, *E* and *H* genes from coryneform bacteria, useful, when over
 expressed, for increasing fermentative production of L-amino acids;
 vector plasmid pEC-XK99E-mediated recombinant protein gene transfer
 and expression in *Escherichia coli* for use in L-amino acid
 preparation and medicine, pharmaceutical and food industries
 AU FARWICK M; HUTHMACHER K; PFEFFERLE W; SCHISCHKA N; BATHE B
 AN 2002-16465 BIOTECHDS
 PI DE 10136986 21 Mar 2002

L61 ANSWER 26 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Production of D-pantothenic acid, optionally as salt and/or contained in
 feed additive, by fermenting Enterobacteriaceae strain in which specific
 nucleotide sequences have been amplified;
 D-pantothenic acid production involving vector expression in host cell
 useful for food industry
 AU HERMANN T; WITTECK B; RIEPING M; KRUSE D
 AN 2003-08898 BIOTECHDS
 PI DE 10128780 19 Dec 2002

L61 ANSWER 27 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Fermentative production of L-amino acid, useful e.g. as animal feed
 additive, by growing Enterobacteriaceae in which activity of four
 specified genes has been reduced;
 L-amino acid production by bacterium fermentation useful for
 pharmaceutical and food industry and animal nutrition
 AU RIEPING M; HERMANN T
 AN 2003-07034 BIOTECHDS
 PI DE 10116518 17 Oct 2002

L61 ANSWER 28 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Protein and DNA sequence of thermostable
cysteine synthase gene of Thermoanaerobacter
tengcongensis

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 15 pp.
CODEN: CNXXEV

IN Bao, Qiyu; Yang, Huanming; Zhang, Limin; Wang, Jian; Wang, Guangxin

AN 2003:738561 HCAPLUS

DN 140:106493

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI CN 1379107	A	20021113	CN 2002-110744	20020201

L61 ANSWER 29 OF 101 MEDLINE on STN DUPLICATE 4

TI Direct detection of potential selenium delivery proteins by using an
Escherichia coli strain unable to incorporate selenium from
selenite into proteins.

SO Proceedings of the National Academy of Sciences of the United States of
America, (2002 Jul 9) Vol. 99, No. 14, pp. 9150-3. Electronic
Publication: 2002-06-25.

Journal code: 7505876. ISSN: 0027-8424.

AU Lacourciere Gerard M; Levine Rodney L; Stadtman Thressa C

AN 2002365646 MEDLINE

L61 ANSWER 30 OF 101 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 5

TI DNA microarray analysis of the expression profile of Escherichia
coli in response to treatment with 4,5-dihydroxy-2-cyclopenten-1-
one.

SO Journal of Bacteriology, (December, 2002) Vol. 184, No. 23, pp. 6725-6729.
print.

CODEN: JOBAAY. ISSN: 0021-9193.

AU Phadtare, Sangita; Kato, Ikunoshin; Inouye, Masayori [Reprint author]

AN 2002:622717 BIOSIS

L61 ANSWER 31 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Profiling early osmostress-dependent gene expression in Escherichia
coli using DNA macroarrays

SO Journal of Bacteriology (2002), 184(19), 5502-5507

CODEN: JOBAAY; ISSN: 0021-9193

AU Weber, Arnim; Jung, Kirsten

AN 2002:723252 HCAPLUS

DN 138:20361

L61 ANSWER 32 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN

TI Identification of Bacillus subtilis CysL, a regulator of the cysJI operon,
which encodes sulfite reductase

SO JOURNAL OF BACTERIOLOGY, (SEP 2002) Vol. 184, No. 17, pp. 4681-4689.
ISSN: 0021-9193.

AU Guillouard I; Auger S; Hullo M F; Chetouani F; Danchin A;
Martin-Verstraete I (Reprint)

AN 2002:686250 SCISEARCH

L61 ANSWER 33 OF 101 MEDLINE on STN DUPLICATE 6

TI pH-dependent expression of periplasmic proteins and amino acid catabolism
in Escherichia coli.

SO Journal of bacteriology, (2002 Aug) Vol. 184, No. 15, pp. 4246-58.

Journal code: 2985120R. ISSN: 0021-9193.

AU Stancik Lauren M; Stancik Dawn M; Schmidt Brian; Barnhart D Michael;
Yoncheva Yuliya N; Slonczewski Joan L

AN 2002365216 MEDLINE

L61 ANSWER 34 OF 101 MEDLINE on STN DUPLICATE 7

TI The luxS gene is involved in cell-cell signalling for toxin production in

Clostridium perfringens.

SO Molecular microbiology, (2002 Apr) Vol. 44, No. 1, pp. 171-9.
Journal code: 8712028. ISSN: 0950-382X.

AU Ohtani Kaori; Hayashi Hideo; Shimizu Tohru

AN 2002230093 MEDLINE

L61 ANSWER 35 OF 101 MEDLINE on STN DUPLICATE 8

TI Cloning of the O-acetylserine lyase gene from the ruminal bacterium Selenomonas ruminantium HD4.

SO Current microbiology, (2002 Mar) Vol. 44, No. 3, pp. 161-6.
Journal code: 7808448. ISSN: 0343-8651.

AU Evans Jeff D; Al-Khalidi Sufian F; Martin Scott A

AN 2002150680 MEDLINE

L61 ANSWER 36 OF 101 MEDLINE on STN DUPLICATE 9

TI Regulation of the metC-cysK operon, involved in sulfur metabolism in Lactococcus lactis.

SO Journal of bacteriology, (2002 Jan) Vol. 184, No. 1, pp. 82-90.
Journal code: 2985120R. ISSN: 0021-9193.

AU Fernandez Maria; Kleerebezem Michiel; Kuipers Oscar P; Siezen Roland J; van Kranenburg Richard

AN 2001701383 MEDLINE

L61 ANSWER 37 OF 101 MEDLINE on STN DUPLICATE 10

TI Indole can act as an extracellular signal in Escherichia coli.

SO Journal of bacteriology, (2001 Jul) Vol. 183, No. 14, pp. 4210-6.
Journal code: 2985120R. ISSN: 0021-9193.

AU Wang D; Ding X; Rather P N

AN 2001357771 MEDLINE

L61 ANSWER 38 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Genome-wide transcriptional profiling of the Escherichia coli responses to superoxide stress and sodium salicylate

SO Journal of Bacteriology (2001), 183(13), 3890-3902
CODEN: JOBAAY; ISSN: 0021-9193

AU Pomposiello, Pablo J.; Bennik, Marjon H. J.; Demple, Bruce

AN 2001:464791 HCAPLUS

DN 136:129834

L61 ANSWER 39 OF 101 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI The product of the cysK gene of Bacillus stearothermophilus V mediates potassium tellurite resistance in Escherichia coli.

SO Abstracts of the General Meeting of the American Society for Microbiology, (2001) Vol. 101, pp. 434. print.
Meeting Info.: 101st General Meeting of the American Society for Microbiology. Orlando, FL, USA. May 20-24, 2001. American Society of Microbiology.
ISSN: 1060-2011.

AU Vasquez, C. [Reprint author]; Saavedra, C. [Reprint author]; Loyola, C. [Reprint author]; Araya, M. [Reprint author]

AN 2002:212000 BIOSIS

L61 ANSWER 40 OF 101 MEDLINE on STN DUPLICATE 11

TI The product of the cysK gene of Bacillus stearothermophilus V mediates potassium tellurite resistance in Escherichia coli.

SO Current microbiology, (2001 Dec) Vol. 43, No. 6, pp. 418-23.
Journal code: 7808448. ISSN: 0343-8651.

AU Vasquez C C; Saavedra C P; Loyola C A; Araya M A; Pichuanes S

AN 2001610112 MEDLINE

L61 ANSWER 41 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

TI The second serine acetyltransferase, bacterial-type O-acetylserine (thiol)

lyase and eukaryotic-type O-acetylserine (thiol) lyase from the primitive red alga *Cyanidioschyzon merolae*
 SO Journal of Plant Research (2001), 114(1115), 291-300
 CODEN: JPLREA; ISSN: 0918-9440
 AU Toda, Kyoko; Takano, Hiroyoshi; Nozaki, Hisayoshi; Kuroiwa, Tsuneyoshi
 AN 2001:889805 HCAPLUS
 DN 136:229119

L61 ANSWER 42 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
 on STN
 TI Functional analysis of the *Bacillus subtilis* **cysK** and **cysJI**
genes
 SO FEMS MICROBIOLOGY LETTERS, (10 JUL 2001) Vol. 201, No. 1, pp. 29-35.
 ISSN: 0378-1097.
 AU van der Ploeg J R (Reprint); Barone M; Leisinger T
 AN 2001:579654 SCISEARCH

L61 ANSWER 43 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Fermentative production of L-cysteine with a recombinant *Escherichia coli* strain
 SO Ger., 12 pp.
 CODEN: GWXXAW
 IN Maier, Thomas; Winterhalter, Christoph
 AN 2000:807780 HCAPLUS
 DN 133:361976

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19949579	C1	20001116	DE 1999-19949579	19991014
CA 2386539	AA	20010419	CA 2000-2386539	20001005
WO 2001027307	A1	20010419	WO 2000-EP9720	20001005
W: CA, CN, HU, JP, KR, PL, RU, SK, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1220940	A1	20020710	EP 2000-969413	20001005
EP 1220940	B1	20030129		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
AT 231918	E	20030215	AT 2000-969413	20001005
JP 2003511086	T2	20030325	JP 2001-530510	20001005

L61 ANSWER 44 OF 101 MEDLINE on STN DUPLICATE 12
 TI Identification of a major facilitator protein from *Escherichia coli* involved in efflux of metabolites of the cysteine pathway.
 SO Molecular microbiology, (2000 Jun) Vol. 36, No. 5, pp. 1101-12.
 Journal code: 8712028. ISSN: 0950-382X.
 AU Dassler T; Maier T; Winterhalter C; Bock A
 AN 2000397983 MEDLINE

L61 ANSWER 45 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
 on STN DUPLICATE 13
 TI Identification of novel VirR/VirS-regulated genes in *Clostridium perfringens*
 SO MOLECULAR MICROBIOLOGY, (FEB 2000) Vol. 35, No. 4, pp. 854-864.
 ISSN: 0950-382X.
 AU Banu S; Ohtani K; Yaguchi H; Swe T; Cole S T; Hayashi H; Shimizu T
 (Reprint)
 AN 2000:196595 SCISEARCH

L61 ANSWER 46 OF 101 MEDLINE on STN DUPLICATE 14
 TI Three *Arabidopsis* **genes** encoding proteins with differential activities for **cysteine synthase** and beta-cyanoalanine synthase.
 SO Plant & cell physiology, (2000 Apr) Vol. 41, No. 4, pp. 465-76.
 Journal code: 9430925. ISSN: 0032-0781.
 AU Yamaguchi Y; Nakamura T; Kusano T; Sano H

AN 2000455450 MEDLINE

L61 ANSWER 47 OF 101 MEDLINE on STN DUPLICATE 15
 TI Molecular cloning and functional characterization of cDNAs encoding
cysteine synthase and serine acetyltransferase that may
 be responsible for high cellular cysteine content in *Allium tuberosum*.
 SO Gene, (2000 Oct 31) Vol. 257, No. 2, pp. 269-77.
 Journal code: 7706761. ISSN: 0378-1119.
 AU Urano Y; Manabe T; Noji M; Saito K
 AN 2001061875 MEDLINE

L61 ANSWER 48 OF 101 MEDLINE on STN DUPLICATE 16
 TI Cysteine biosynthesis pathway in the archaeon *Methanosarcina barkeri*
 encoded by acquired bacterial genes?.
 SO Journal of bacteriology, (2000 Jan) Vol. 182, No. 1, pp. 143-5.
 Journal code: 2985120R. ISSN: 0021-9193.
 AU Kitabatake M; So M W; Tumbula D L; Soll D
 AN 2000082853 MEDLINE

L61 ANSWER 49 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
 on STN
 TI Cloning and characterization of the gene encoding O-acetylserine lyase
 from *Streptococcus suis*
 SO CURRENT MICROBIOLOGY, (JAN 2000) Vol. 40, No. 1, pp. 67-71.
 ISSN: 0343-8651.
 AU Osaki M (Reprint); Takamatsu D; Tsuji N; Sekizaki T
 AN 1999:926645 SCISEARCH

L61 ANSWER 50 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
 on STN
 TI Molecular and functional analyses of the *metC* gene of *Lactococcus lactis*,
 encoding cystathionine beta-lyase
 SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (JAN 2000) Vol. 66, No. 1, pp.
 42-48.
 ISSN: 0099-2240.
 AU Fernandez M; van Doesburg W; Rutten G A M; Marugg J D; Alting A C; van
 Kranenburg R (Reprint); Kuipers O P
 AN 2000:26440 SCISEARCH

L61 ANSWER 51 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Modification of sulfur metabolism in plants by overexpression of bacterial
cysE and **cysK** genes
 SO NATO Science Series, Series A: Life Sciences (2000), 319(Use of
 Agriculturally Important Genes in Biotechnology), 19-25
 CODEN: NASAF2; ISSN: 1387-6686
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 AN 2001:470496 HCAPLUS
 DN 136:161941

L61 ANSWER 52 OF 101 MEDLINE on STN DUPLICATE 17
 TI *Escherichia coli* genes regulated by cell-to-cell signaling.
 SO Proceedings of the National Academy of Sciences of the United States of
 America, (1999 Apr 13) Vol. 96, No. 8, pp. 4610-4.
 Journal code: 7505876. ISSN: 0027-8424.
 AU Baca-DeLancey R R; South M M; Ding X; Rather P N
 AN 1999218328 MEDLINE

L61 ANSWER 53 OF 101 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
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 TI Characterization of quorum sensing pathways in *E. coli*.
 SO Abstracts of the General Meeting of the American Society for Microbiology,
 (1999) Vol. 99, pp. 363. print.
 Meeting Info.: 99th General Meeting of the American Society for
 Microbiology. Chicago, Illinois, USA. May 30-June 3, 1999. American
 Society for Microbiology.

ISSN: 1060-2011.

AU Rather, P. N. [Reprint author]; Baca-Delancey, R. R. [Reprint author];
Ding, X. [Reprint author]
AN 1999:311307 BIOSIS

L61 ANSWER 54 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Isolation and characterization of promoter regions from *Streptococcus*
gordonii CH1
SO Current Microbiology (1999), 39(6), 321-326
CODEN: CUMIDD; ISSN: 0343-8651
AU Vriesema, Aldwin J. M.; Dankert, Jacob; Zaat, Sebastian A. J.
AN 1999:765137 HCAPLUS
DN 132:74463

L61 ANSWER 55 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
TI The utilization of bacterial genes to modify domestic animal biochemistry
SO Transgenic Animals in Agriculture, [Papers presented at a Conference],
Tahoe City, Calif., Aug., 1997 (1999), Meeting Date 1997, 157-176.
Editor(s): Murray, James D. Publisher: CABI Publishing, Wallingford, UK.
CODEN: 68ABAX
AU Ward, K. A.; Leish, Z.; Brownlee, A. G.; Bonsing, J.; Nancarrow, C. D.;
Brown, B. W.
AN 1999:538707 HCAPLUS
DN 131:332727

L61 ANSWER 56 OF 101 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 18
TI Molecular cloning and expression analyses of mitochondrial and plastidic
isoforms of **cysteine synthase** (O-
acetylserine(thiol)lyase) from *Arabidopsis thaliana*.
SO Amino Acids (Vienna), (1999) Vol. 16, No. 2, pp. 113-131. print.
ISSN: 0939-4451.
AU Hesse, H. [Reprint author]; Lipke, J.; Altmann, T.; Hoefgen, R.
AN 1999:247888 BIOSIS

L61 ANSWER 57 OF 101 MEDLINE on STN DUPLICATE 19
TI Molecular cloning and characterization of the **genes** encoding two
isoforms of **cysteine synthase** in the enteric protozoan
parasite *Entamoeba histolytica*.
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pp. 33-44.
Journal code: 8006324. ISSN: 0166-6851.
AU Nozaki T; Asai T; Kobayashi S; Ikegami F; Noji M; Saito K; Takeuchi T
AN 1999094494 MEDLINE

L61 ANSWER 58 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Sulfur-containing amino acids and their manufacture by using
microorganisms
SO Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
IN Hatamoto, Osamu; Noguchi, Kaoru; Matsuyama, Akira; Ootake, Hideko; Nakano,
Eiichi
AN 1997:203703 HCAPLUS
DN 126:185078

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09009982	A2	19970114	JP 1995-168931	19950704

L61 ANSWER 59 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
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TI Identification and molecular genetic analysis of multiple loci
contributing to high-level tellurite resistance in *Rhodobacter sphaeroides*
2.4.1
SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (DEC 1997) Vol. 63, No. 12, pp.
4713-4720.

ISSN: 0099-2240.

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AN 1997:912068 SCISEARCH

L61 ANSWER 60 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN

TI Cloning and characterization of the *Aspergillus nidulans* **cysB gene**
encoding **cysteine synthase**

SO CURRENT GENETICS, (APR 1997) Vol. 31, No. 4, pp. 348-356.
ISSN: 0172-8083.

AU Topczewski J (Reprint); Sienko M; Paszewski A
AN 1997:388158 SCISEARCH

L61 ANSWER 61 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
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TI Isolation of a **gene** encoding **cysteine synthase**
from *Flavobacterium* K-3-15

SO FEMS MICROBIOLOGY LETTERS, (1 MAR 1996) Vol. 136, No. 3, pp. 305-308.
ISSN: 0378-1097.

AU Muller R (Reprint); Kuttler E; Lanz C; Drewke C; Schmidt K
AN 1996:230367 SCISEARCH

L61 ANSWER 62 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN

TI Subcellular localization of spinach **cysteine synthase**
isoforms and regulation of their **gene** expression by nitrogen and
sulfur

SO PLANT PHYSIOLOGY, (SEP 1996) Vol. 112, No. 1, pp. 273-280.
ISSN: 0032-0889.

AU Takahashi H (Reprint); Saito K
AN 1996:691580 SCISEARCH

L61 ANSWER 63 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

TI In vitro characterization of constitutive CysB proteins from *Salmonella*
typhimurium

SO Molecular Microbiology (1996), 21(2), 247-256
CODEN: MOMIEE; ISSN: 0950-382X

AU Colyer, Tracey E.; Kredich, Nicholas M.
AN 1996:482395 HCAPLUS
DN 125:160208

L61 ANSWER 64 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Two enzymes together capable of cysteine biosynthesis are encoded on a
cyanobacterial plasmid

SO Molecular & General Genetics (1995), 247(5), 623-32
CODEN: MGGEAE; ISSN: 0026-8925

AU Nicholson, Mary Louise; Gaasenbeek, Michelle; Laudénbach, David E.
AN 1995:692345 HCAPLUS
DN 123:277403

L61 ANSWER 65 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Functional cloning of the dihydropteroate synthase gene of *Staphylococcus*
haemolyticus

SO FEMS Microbiology Letters (1995), 134(2-3), 165-9
CODEN: FMLED7; ISSN: 0378-1097

AU Kellam, Paul; Dallas, Walter S.; Ballantine, Stuart P.; Delves, Chris J.
AN 1995:988987 HCAPLUS
DN 124:78148

L61 ANSWER 66 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Sulfate starvation-induced regulation of gene expression in Gram-negative
bacteria;

in *Pseudomonas aeruginosa* and *Escherichia coli*;
arylsulfatase (conference abstract)

SO J.Cell.Biochem.; (1995) Suppl.21A, 41

CODEN: JCEBD5 ISSN: 0730-2312

Keystone Symposium, 24th Annual Meeting, Environmental Biotechnology,
Lake Tahoe, CA, March 16-22, 1995.

AU Leisinger T; Kertesz M; Cook A; Beil S; Ragaller J; Weiss M; van der
Ploeg J

AN 1996-04230 BIOTECHDS

L61 ANSWER 67 OF 101 MEDLINE on STN DUPLICATE 20

TI Isolation and characterization of cDNA that encodes a putative
mitochondrion-localizing isoform of **cysteine synthase**
(O-acetylserine(thiol)-lyase) from *Spinacia oleracea*.

SO The Journal of biological chemistry, (1994 Nov 11) Vol. 269, No. 45, pp.
28187-92.

Journal code: 2985121R. ISSN: 0021-9258.

AU Saito K; Tatsuguchi K; Takagi Y; Murakoshi I

AN 95050598 MEDLINE

L61 ANSWER 68 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Stoichiometry of binding of CysB to the *cysJIH*, **cysK**, and *cysP*
promoter regions of *Salmonella typhimurium*

SO Journal of Bacteriology (1994), 176(12), 3673-82

CODEN: JOBAAY; ISSN: 0021-9193

AU Hryniewicz, Monika M.; Kredich, Nicholas M.

AN 1994:475159 HCAPLUS

DN 121:75159

L61 ANSWER 69 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN DUPLICATE 21

TI OVEREXPRESSION OF A PLANT **CYSTEINE SYNTHASE**
GENE AND BIOSYNTHESIS OF A PLANT SPECIFIC METABOLITE,
BETA-(PYRAZOL-1-YL)-L-ALANINE, IN ESCHERICHIA-COLI

SO CANADIAN JOURNAL OF CHEMISTRY-REVUE CANADIENNE DE CHIMIE, (JAN 1994) Vol.
72, No. 1, pp. 188-192.

ISSN: 0008-4042.

AU SAITO K (Reprint); KANDA R; KUROSAWA M; MURAKOSHI I

AN 1994:208036 SCISEARCH

L61 ANSWER 70 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Molecular cloning and expression of key enzymes for biosynthesis of
cysteine and related secondary non-protein amino acids

SO Plant Cell, Tissue and Organ Culture (1994), 38(2/3), 153-8

CODEN: PTCEDJ; ISSN: 0167-6857

AU Saito, Kazuki; Miura, Naoko; Yamazaki, Mami; Tatsuguchi, Kazuyo; Kurosawa,
Makoto; Kanda, Reiko; Noji, Masaaki; Murakoshi, Isamu

AN 1995:403174 HCAPLUS

DN 123:28306

L61 ANSWER 71 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Molecular cloning of a **cysteine synthase** cDNA from
Citrullus vulgaris (watermelon) by genetic complementation in an
Escherichia coli Cys- auxotroph

SO Molecular and General Genetics (1994), 244(1), 57-66

CODEN: MGGEAE; ISSN: 0026-8925

AU Noji, Masaaki; Murakoshi, Isamu; Saito, Kazuki

AN 1994:649106 HCAPLUS

DN 121:249106

L61 ANSWER 72 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

TI An O-acetylserine (thiol) lyase cDNA from spinach

SO Plant Physiology (1993), 102(3), 1057-8

CODEN: PLPHAY; ISSN: 0032-0889

AU Hell, Rudiger; Schuster, Gadi; Gruissem, Willhelm

AN 1993:576394 HCAPLUS

DN 119:176394

L61 ANSWER 73 OF 101 MEDLINE on STN DUPLICATE 22
 TI Introduction and expression of the bacterial **genes** *cysE* and *cysK* in eukaryotic cells.
 SO Applied and environmental microbiology, (1993 Mar) Vol. 59, No. 3, pp. 892-8.
 Journal code: 7605801. ISSN: 0099-2240.
 AU Leish Z; Byrne C R; Hunt C L; Ward K A
 AN 93243742 MEDLINE

L61 ANSWER 74 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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 DN 119:220394

L61 ANSWER 75 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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 CODEN: FEBLAL; ISSN: 0014-5793
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 DN 119:64708

L61 ANSWER 76 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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 SO Archives of Biochemistry and Biophysics (1993), 300(1), 213-22
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L61 ANSWER 77 OF 101 MEDLINE on STN DUPLICATE 23
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 AN 1993-12904 BIOTECHDS

L61 ANSWER 79 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
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 AN 1993-00913 BIOTECHDS
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L61 ANSWER 80 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN
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CHARACTERIZATION AND CDNA CLONING OF AN UP-REGULATED ENZYME DURING
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America (1992), 89(17), 8078-82
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L61 ANSWER 82 OF 101 LIFESCI COPYRIGHT 2006 CSA on STN
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L61 ANSWER 83 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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biosynthesis
SO Ger. Offen., 26 pp.
CODEN: GWXXBX
AN 1991:158520 HCAPLUS
DN 114:158520

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	CA 2005809	AA	19900619	CA 1989-2005809	19891218
	AU 8946973	A1	19900621	AU 1989-46973	19891219
	AU 636864	B2	19930513		
	GB 2227243	A1	19900725	GB 1989-28641	19891219
	GB 2227243	B2	19930127		
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L61 ANSWER 84 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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PI	CA 2045516	AA	19900707	CA 1990-2045516	19900105
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	AU 9049588	A1	19900813	AU 1990-49588	19900105
	EP 452413	A1	19911023	EP 1990-902453	19900105
	EP 452413	B1	20000412		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
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L61 ANSWER 85 OF 101 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 26
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L61 ANSWER 86 OF 101 MEDLINE on STN DUPLICATE 27
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L61 ANSWER 87 OF 101 MEDLINE on STN DUPLICATE 28
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L61 ANSWER 88 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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L61 ANSWER 89 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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 CODEN: JKXXAF
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 AN 1989:34808 HCAPLUS
 DN 110:34808

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63129985	A2	19880602	JP 1986-277379	19861119

L61 ANSWER 90 OF 101 MEDLINE on STN DUPLICATE 29
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Salmonella typhimurium and *Escherichia coli* and linkage of the
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L61 ANSWER 91 OF 101 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
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OF SALMONELLA-TYPHIMURIUM AND ESCHERICHIA-COLI AND LINKAGE OF
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L61 ANSWER 93 OF 101 MEDLINE on STN DUPLICATE 31
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L61 ANSWER 94 OF 101 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
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 PI JP 62275685 A 19871130 (198802)* 5

L61 ANSWER 95 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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L61 ANSWER 96 OF 101 MEDLINE on STN
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L61 ANSWER 97 OF 101 MEDLINE on STN DUPLICATE 32
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L61 ANSWER 99 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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L61 ANSWER 100 OF 101 MEDLINE on STN DUPLICATE 33
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L61 ANSWER 101 OF 101 MEDLINE on STN DUPLICATE 34
 TI Isolation and characterization of **cysK** mutants of *Escherichia coli* K12.
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 AN 78068113 MEDLINE

=> d ab 22,25,28,40,43,44,47,51,58,69,70,81,90,99,100

L61 ANSWER 22 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 AB AUTHOR ABSTRACT - There is an increasing demand for peptide-mimicking molecules to modulate the interactions between proteins of pharmaceutical and agrochemical interest and their target polypeptides. Unnatural L-alpha-amino acids differing from the 20 naturally proteinogenic amino acids only in their side chain are ideal for this purpose, but their chemical synthesis is complex. Here we describe a fermentation-based approach for biosynthesis of unnatural amino acids after re-engineering the cysteine-biosynthetic pathway in *Escherichia coli*. O-acetylation of serine, the committed step of the pathway, was released from feedback inhibition by mutating the serine acetyltransferase gene. Next, the naturally broad substrate specificity of O-acetylserine sulfhydrylase was exploited for the direct in vivo incorporation of an unnatural side chain in a semisynthetic fermentation process comparable to the production of beta-lactams. O-acetyl-L-serine extruded from the cells by way of the O-acetylserine efflux protein was amenable to further biotransformations. (6 pages)

L61 ANSWER 25 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 AB DERWENT ABSTRACT:
 NOVELTY - Isolated polynucleotides (I) from coryneform bacteria containing a sequence that represents at least one of the *cysD*, *N*, *K*, *E* or *H* genes, are new.
 DETAILED DESCRIPTION - Isolated polynucleotides (I) from coryneform bacteria containing a sequence that represents at least one of the *cysD*, *N*, *K*, *E* or *H* genes, comprising: (i) a sequence having at least 70% identity with a polynucleotide that encodes one of the polypeptides (A1) (304 amino acids (aa)), (A3) (433 aa), (A4) (311 aa), (A5) (188 aa) or (A6) (261 aa), all reproduced in the specification; (ii) a sequence that encodes a polypeptide at least 70% identical with the polypeptides of (i); (iii) the complement of (i) or (ii); or (iv) a sequence containing at least 15 consecutive nucleotides (nt) from (i)-(iii). The polypeptides preferably have the activities of sulfate-adenylyl transferase (*cysD* and *N*; two subunits); **cysteine synthase A** (**cysK**); serine-acetyl transferase (*cyse*) or 3'-phosphoadenylyl-sulfate reductase (*cysh*). INDEPENDENT CLAIMS are also included for the following: (a) coryneform bacteria in which the activity of the *cysD*, *N*, *K*, *E* or *H* genes has been increased, especially over expressed; (b) the strains *Escherichia coli* DH5alpha/mer/pEC-XK99E(*cyseB*, *cysKa*, *cysDa*, *cysHa*)alex (DSM 14308, 14310, 14311 and 14315, respectively); (c) fermentative production (II) of L-aa, especially L-lysine, L-cysteine or L-methionine, by growing the cells of (a); (d) coryneform bacteria containing a vector that carries (I); (e) production (III) of fodder additive (A) that contains L-Met by: (i) culturing/fermenting a L-Met-producing microorganism; (ii) removing water from the culture; (iii) optionally removing at least some of the biomass produced; and (iv) drying the resulting fermentation broth to produce (A) in powdered or

granular form; and (f) (A) produced by method (e).

BIOTECHNOLOGY - Preferred Nucleic Acid: (I) is replicable, preferably recombinant, DNA or is RNA. Particularly it is: (i) a 2640 base pair sequence (N1) (both *cysD* and *N*); 2170 bp **sequence** (N2) (both *cysK* and *E*) or a 1240 bp **sequence** (N3) (*cysH*) all reproduced in the specification; (ii) an equivalent of (i) within the degeneracy of the genetic code; (iii) a sequence that hybridizes to the complement of (i) or (ii), under conditions of stringency corresponding, at most, to 2 x SSC; or (iv) a functionally neutral sense mutant of (i). Preferred process: In (II), activity of genes in the metabolic pathway that leads to the required aa may be strengthened and pathways that reduce formation of the aa may be weakened. Particularly the expression of the new genes is increased (especially over expressed) and/or the activity of the encoded protein is increased. Especially over expression is achieved by incorporating a vector that contains (I). Particularly activity of at least one of the following genes may be increased: *dapA* (dihydrodipicolinate synthase); *gap* (glyceraldehyde-3-phosphate dehydrogenase); *tpi* (triosephosphate isomerase); *pgk* (3-phosphoglycerate kinase); *zwf* (glucose-6-phosphate dehydrogenase); *pyc* (pyruvate carboxylase); *mgo* (malate-quinone oxidoreductase); *lysC* (feedback-resistant aspartate kinase); *lysE* (lysine export); *hom* (homoserine dehydrogenase); *ilvA* (threonine dehydratase, or its feedback-resistant allele); *ilvBN* (acetohydroxy acid synthase); *ilvD* (dihydroxyacid dehydratase) or *zwa1* (*Zwa1*). The activity of one or more of the following genes may be reduced: *pck* (phosphoenolpyruvate-carboxykinase); *pgi* (glucose-6-phosphate isomerase); *poxB* (pyruvate oxidase) and *zwa2* (*Zwa2*). For production of L-Cys, activity of the genes *aecD* (cystathionin-beta-lyase) and/or *metB* (cystathionin-gamma-lyase) may also be reduced. In method (III), the microorganism may have additional genes in the pathway to Met overexpressed and those that reduce formation of Met suppressed. Optionally D- and/or L-Met is added to the broth, before and/or after drying, optionally also auxiliaries that improve stability and storage life, and the finished product may be coated with a film former that is stable in the stomach (especially rumen) of animals. For all fermentations, the microorganism is especially *Corynebacterium glutamicum* DSM 5715 that has been transformed with one of the vectors of (b) and fermentation is at 20-45, preferably 25-40, degreesC, for 10-160 hr. Preparation: A cosmid library of chromosomal DNA from *C. glutamicum* ATCC 13032 was established in *Escherichia coli* NM544 and inserts in selected colonies sequenced to identify (1), (4) and (7). These genes were amplified (primer sequences given) and the amplicons cloned into the *E. coli* - *Corynebacterium glutamicum* shuttle vector pEC-XK99E (map reproduced) to form the vectors of (b). These were introduced by electroporation into *C. glutamicum* DSM 5715.

USE - *Coryneform* bacteria in which activity of (I) has been increased, especially overexpressed, are useful in fermentative production of L-amino acids, specifically L-lysine, L-cysteine or L-methionine, useful in human medicine, the pharmaceutical and food industries, and especially in animal nutrition. (I) is also useful as source of probes, and primers, for identifying nucleic acids that encode the new proteins or closely similar sequences.

ADVANTAGE - Increasing the activity of the *cys* genes increases production of L-amino acids in *coryneform* bacteria.

EXAMPLE - The *Corynebacterium glutamicum* strain DSM 5715 was grown of medium for 48 hour to produce a medium containing 13.11 g/l lysine hydrochloride. When the same strain was transformed with the *cysH*-expressing vector *peck-XK99EcysHalex*, it produced 15.22 g/l. (36 pages)

L61 ANSWER 28 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

AB The invention provides protein and DNA sequences of a high temperature-resistant **cysteine synthase gene** cloned from *Thermoanaerobacter tengcongensis*. The invention relates to methods for production and purification of the high temperature-resistant **cysteine synthase** expressed in *Escherichia coli*

DH5 α .

- L61 ANSWER 40 OF 101 MEDLINE on STN DUPLICATE 11
AB The nucleotide sequence of a 4,539 bp fragment of *Bacillus stearothermophilus* V mediating tellurite resistance in *Escherichia coli* was determined. Four ORFs of more than 150 amino acids encoding polypeptides of 244, 258, 308, and 421 residues were found in the restriction fragment. *E. coli* cells harboring a recombinant plasmid containing the Ter determinant express, when challenged with tellurite, a 32 kDa protein with an amino terminal sequence identical to the ten first residues of the 308 ORF. This ORF shows great similarity with the **cysteine synthase gene** (**cysK**) of a number of organisms. Recombinant clones carrying the active **cysK gene** have minimal inhibitory concentrations to K₂TeO₃ that were tenfold higher than those determined for the host strain or that of clones carrying ORFs 244, 258, and 421. Introduction of the *B. stearothermophilus* V **cysK gene** into a **cysK** strain of *Salmonella typhimurium* LT2 resulted in complementation of the mutation as well as transfer of tellurite resistance.
- L61 ANSWER 43 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
AB The invention provides a process for the production of L-cysteine or L-cysteine-derivs. by a fed-batch fermentation of a recombinant *Escherichia coli* strain as well procedures for the construction of the genetically engineered *E. coli* strain. This microbial strain, *Escherichia coli* W3110/pHC34, which is suitable for the fermentative production of L-cysteine, possesses a deregulated cysteine metabolism, not based on a changed CysB (**cysteine synthase**) activity, but characterized by an increased CysB activity due to multiple gene dosage and high plasmid copy nos. The expression of the **cysB gene** was also rendered constitutive through site directed mutation of its gene sequence. Addnl., the pHC34 plasmid carries a modified **cysEX gene** which code for a feedback resistant serine acetyltransferase and for deregulated cysteine efflux. Thus, *Escherichia coli* W3110/pHC34 produced 10.0 g/L of L-cysteine and 12.6 g/L of cystine after 48 h of fermentation on with a glucose and thiosulfate mixed feed.
- L61 ANSWER 44 OF 101 MEDLINE on STN DUPLICATE 12
AB A chromosomal fragment has been identified in a gene bank from *Escherichia coli*, which augmented the yield of cysteine in an industrial production strain. Subcloning and genetic analysis showed that an open reading frame coding for a product of 299 amino acids (Orf299) was responsible. Orf299 was synthesized in the T7 polymerase/promoter system and exhibited the properties of an integral membrane protein. Mutational interruption of orf299 did not cause a distinct phenotype; however, transformants overexpressing orf299 had lost the ability to grow in minimal medium unless it was supplemented with a source of reduced sulphur compounds, and they excreted considerable amounts of cysteine and O-acetyl-L-serine, especially in the presence of thiosulphate. Most of the cysteine was found to be masked in 2-methyl-2,4-thiazolidinedicarboxylic acid. N-acetyl-L-serine was also present in the medium, but it is open to question whether it represents a primary excretion product. Measurement of the induction status of the cysteine regulon by means of a **cysK'-lacZ gene fusion** demonstrated that the regulon is not induced upon growth in the presence of a poor sulphur source and that the introduction of a constitutive **cysB** allele alleviates this deficiency. The results indicate that orf299 codes for an export pump for different metabolites of the cysteine pathway. Its relation to other efflux systems and the physiological role are discussed.
- L61 ANSWER 47 OF 101 MEDLINE on STN DUPLICATE 15
AB The plants belonging to the genus *Allium* are known to accumulate sulfur-containing secondary compounds that are derived from cysteine. Here, we report on molecular cloning and functional characterization of

two cDNAs that encode serine acetyltransferase and **cysteine synthase** from *A. tuberosum* (Chinese chive). The cDNA for serine acetyltransferase encodes an open reading frame of 289 amino acids, of which expression could complement the lacking of *cysE* gene for endogenous serine acetyltransferase in *Escherichia coli*. The cDNA for **cysteine synthase** encodes an open reading frame of 325 amino acids, of which expression in the *E. coli* lacking endogenous **cysteine synthase genes** could functionally rescue the growth without addition of cysteine. Both deduced proteins seem to be localized in cytosol, judging from their primary structures. Northern blot analysis indicated that both transcripts accumulated in almost equal levels in leaves and root of green and etiolated seedlings of *A. tuberosum*. The activity of recombinant serine acetyltransferase produced from the cDNA was inhibited by L-cysteine, which is the end-product of the pathway; however, the sensitivity to cysteine (48.7 microM of the concentration for 50% inhibition, IC(50)) was fairly low compared with that of previously reported serine acetyltransferases (approximately 5 microM IC(50)) from various plants. In *A. tuberosum*, the cellular content of cysteine was several-fold higher than those in *Arabidopsis thaliana* and tobacco. This higher concentration of cysteine in *A. tuberosum* is likely due to the lower sensitivity of feedback inhibition of serine acetyltransferase to cysteine.

L61 ANSWER 51 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

AB Plant expression cassettes containing either the *Escherichia coli* *cysE* gene (encoding SAT) or *cysK* gene (encoding OAS-TL) were constructed. After the *Agrobacterium*-mediated transformation of tobacco we identified stable transformed plants containing several-fold higher SAT or OAS-TL activity in comparison to the control plants. Selected plants were further characterized. Determination of non-protein thiol content indicated 2- to 3-fold higher cysteine and glutathione levels in some of these transgenic plants and their progeny. The maximal elevation of the cysteine level was about fourfold while that of GSH was about twofold higher than in the controls. The most striking physiological consequence of the modification of sulfur metabolite levels in the transgenic plants, however, was their increased resistance to oxidative stress generated by exogenous hydrogen peroxide.

L61 ANSWER 58 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

AB Disclosed is a method for the production of S-containing amino acids by cultivation of microorganisms that express the genes for serine acetyltransferase (**gene cysE**), phosphotransacetylase (**gene pta**), and O-acetylserine lyase (**gene cysK**) in a medium containing serine, sulfides, acetyl CoA, and acetyl phosphoric acid. Recombinant bacteriophage λ 501CYSxPTA carrying **genes cysE**, **cysK**, and **pta** was prepared and used for the transformation of *Escherichia coli* strain 1100. The transformant was able to produce S-containing amino acids at a level of 1.2 mM/30 min., as compared to 0.6 of that of the control.

L61 ANSWER 69 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 21

AB **Cysteine synthase** (EC 4.2.99.8) in higher plants is responsible for biosynthesis of not only cysteine but also some nonprotein amino acids such as beta-(pyrazol-1-yl)-L-alanine. The cDNA of a **cysteine synthase** from spinach (*Spinacia oleracea*) was inserted into pET8c (=pET3d) under the transcriptional control of strong T7 promoter to yield an overexpression vector pCEK1. The amount of the exogenous **cysteine synthase** was increased up to 40% of the total soluble protein of *Escherichia coli* transformed with pCEK1. beta-(Pyrazol-1-yl)-L-alanine, a specific metabolite in plants of the Cucurbitaceae, was biosynthesized by overexpressed **cysteine synthase** from pyrazole in the presence of O-acetyl-L-serine and serine, in vitro and in vivo, respectively. The present study provides

the system for mechanistic investigation of biosynthesis of cysteine and biogenetically related beta-substituted alanines at molecular genetic level.

L61 ANSWER 70 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

AB **Cysteine synthase** plays a key role in the sulfur assimilation pathway in plant cells. The cDNA clones encoding two isoforms of this enzyme were isolated from spinach by synthetic oligonucleotide probes. The modes of expression of these two genes differed in tissues of spinach. A heterologous expression system in *Escherichia coli* and transgenic tobacco was made. The application of heterologous expression to modify sulfur metabolism and to produce non-protein amino acids is discussed.

L61 ANSWER 81 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 25

AB **Cysteine synthase** (CSase) [O-acetyl-L-serine acetate-lyase (adding hydrogen sulfide), EC 4.2.99.8] catalyzes the formation of L-cysteine, the key step in sulfur assimilation in plants, from O-acetyl-L-serine and hydrogen sulfide. The isolation and characterization of cDNA clones encoding **cysteine synthase** from spinach (*Spinacia oleracea*) is reported. Internal peptide sequences were obtained from V8 protease-digested fragments of purified CSase. A λ gt10 cDNA library was constructed from poly(A)+ RNA of young green leaves of spinach. Screening with two synthetic mixed nucleotides encoding the partial peptide sequences revealed 19 pos. hybridized clones among 2 + 105 clones. Nucleotide sequence anal. of 2 independent cDNA clones revealed a continuous open reading frame encoding a polypeptide of 325 amino acids with a calculated mol. mass of 34,185 Da. Sequence comparison of the deduced amino acids revealed 53% identity with CSases of *Escherichia coli* and *Salmonella typhimurium*. Sequence homol. was also observed with other metabolic enzymes for amino acids in bacteria and yeast and with rat hemoprotein H-450. A bacterial expression vector was constructed and could genetically complement an *E. coli* auxotroph that lacks CSases. The accumulation of functionally active spinach CSase in *E. coli* was also demonstrated by immunoblotting and assaying enzymic activity. Southern hybridization anal. showed the present of 2-3 copies of the cDNA sequence in the genome of spinach. RNA blot hybridization suggested constitutive expression in leaves and roots of spinach.

L61 ANSWER 90 OF 101 MEDLINE on STN DUPLICATE 29

AB Nucleotide **sequences** of the **cysK** regions of *Salmonella typhimurium* and *Escherichia coli* have been determined. A total of 3,812 and 2,595 nucleotides were sequenced from *S. typhimurium* and *E. coli*, respectively. Open reading frames of 323 codons were found in both species and were identified as those of **cysK** by comparison of deduced amino acid **sequences** with amino- and carboxyl-terminal amino acid analyses of the *S. typhimurium* **cysK** gene product O-acetylserine (thiol)-lyase A. The two **cysK** DNA **sequences** were 85% identical, and the deduced amino acid **sequences** were 96% identical. The major transcription initiation sites for **cysK** were found to be virtually identical in the two organisms, by using primer extension and S1 nuclease protection techniques. The -35 region corresponding to the major transcription start site was TTCCCC in *S. typhimurium* and TTCCGC in *E. coli*. The deviation of these **sequences** from the consensus **sequence** TTGACA may reflect the fact that **cysK** is subject to positive control and requires the **cysB** regulatory protein for expression. **Sequences** downstream of **cysK** were found to include **ptsH** and a portion of **ptsI**, thus establishing the exact relationship of **cysK** with these two **genes**. A 290-codon open reading frame, which may represent the **cysZ** gene, was identified upstream of **cysK**.

L61 ANSWER 99 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

AB In *S. typhimurium* and *Escherichia coli* the biosynthesis of L-cysteine from L-serine and S042- proceeds along a branched convergent pathway along 1 arm of which S042- is reduced to S2-, while on the other, L-serine is acetylated to O-acetyl-L-serine. This system is subject to pos. genetic control in which growth on a poor S source, O-acetyl-L-serine, and the product of the *cysB* regulatory gene are all required for derepression. The final step consists of the formation of L-cysteine from O-acetyl-L-serine and S2-. In *S. typhimurium* this reaction is catalyzed by 2 different enzymes, O-acetylserine sulphydrylase A and O-acetylserine sulphydrylase B, coded for by *cysK* and *cysM*, resp. Both enzymes are under the control of the cysteine regulon, and either alone is sufficient for cysteine prototrophy during aerobic growth. Although the advantage to the bacterium of having 2 sep. enzymes to carry out the same reaction is unclear, apparently O-acetylserine sulphydrylase B is preferentially utilized for cysteine biosynthesis during anaerobic growth. One enzyme may prefer free S2- as a substrate while the other may use a bound form of sulfide.

L61 ANSWER 100 OF 101 MEDLINE on STN DUPLICATE 33

AB Triazole and azaserine resistant mutants of *E. coli* K12 affecting *cysK* gene coding for O-acetylserine sulphydrylase were isolated. The *cysK* gene in *E. coli* is located in the same region of chromosome as the *cysK* gene in *Salmonella typhimurium*. All azaserine and some triazole resistant mutants require cysteine for growth at a normal rate. The *cysK* mutants have reduced sulphate uptake. Stability and transfer by conjugation of triazole resistant phenotype were checked. Differences in sulphate metabolism between closely related organisms *E. coli* and *S. typhimurium* are discussed.

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	34.80	35.01
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.25	-5.25

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:41:04 ON 16 MAR 2006

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=> fil .bec

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 15:35:37 ON 16 MAR 2006
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

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142562 IL
143699 INTERLEUKIN
801550 12

L1 11082 (IL OR INTERLEUKIN) (W)12

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    730031 12
L2      12522 (IL OR INTERLEUKIN) (W) 12

FILE 'LIFESCI'
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    132100 12
L3      6179 (IL OR INTERLEUKIN) (W) 12

FILE 'BIOTECHDS'
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    7762 INTERLEUKIN
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L4      1089 (IL OR INTERLEUKIN) (W) 12

FILE 'BIOSIS'
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    193539 INTERLEUKIN
    778415 12
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    608286 12
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    246422 12
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L15 22 L3 (10A)COLI

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45798 COLI
L16 3 L4 (10A)COLI

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L17 21 L5 (10A)COLI

FILE 'EMBASE'
177426 COLI
L18 25 L6 (10A)COLI

FILE 'HCAPLUS'
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L19 43 L7 (10A)COLI

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2811 COLI
L20 0 L8 (10A)COLI

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1910579 2003-2006/PY
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3527752 2003-2006/PY
(20030000-20069999/PY)
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305775 2003-2006/PY
L27 14 L15 NOT 2003-2006/PY

FILE 'BIOTECHDS'
83211 2003-2006/PY
L28 2 L16 NOT 2003-2006/PY

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1617377 2003-2006/PY
L29 13 L17 NOT 2003-2006/PY

FILE 'EMBASE'
1637848 2003-2006/PY
L30 17 L18 NOT 2003-2006/PY

FILE 'HCAPLUS'
3637922 2003-2006/PY
L31 26 L19 NOT 2003-2006/PY

FILE 'NTIS'
42424 2003-2006/PY
L32 0 L20 NOT 2003-2006/PY

FILE 'ESBIOBASE'
969797 2003-2006/PY
L33 20 L21 NOT 2003-2006/PY

FILE 'BIOTECHNO'
122467 2003-2006/PY
L34 17 L22 NOT 2003-2006/PY

FILE 'WPIDS'
3390450 2003-2006/PY
L35 0 L23 NOT 2003-2006/PY

TOTAL FOR ALL FILES
L36 141 L24 NOT 2003-2006/PY

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PROCESSING COMPLETED FOR L36
L37 39 DUP REM L36 (102 DUPLICATES REMOVED)

=> d tot

L37 ANSWER 1 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Recombinant baculovirus AcNPV-hIL12 expressing human interleukin- 12 and
its preparation and therapeutic uses thereof
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 17 pp.
CODEN: CNXXEV
IN Meng, Xiaolin; Xu, Jinping; Yu, Zailin; Fu, Yan
AN 2003:398910 HCAPLUS
DN 138:363824

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI CN 1357622	A	20020710	CN 2001-133631	20011102

L37 ANSWER 2 OF 39 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 1
TI Innate Immune Responses of Human Neonatal Cells to Bacteria from the
Normal Gastrointestinal Flora
SO Infection and Immunity [Infect. Immun.], (20021200) vol. 70, no. 12, pp.
6688-6696.
ISSN: 0019-9567.
AU Karlsson, H.; Hessle, C.; Rudin, A.*
AN 2003:7058 LIFESCI

L37 ANSWER 3 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Modulation of human monocytes by Escherichia coli heat-labile enterotoxin
B-subunit; altered cytokine production and its functional consequences
SO Immunology (2002), 106(3), 316-325
CODEN: IMMUAM; ISSN: 0019-2805
AU Turcanu, Victor; Hirst, Timothy R.; Williams, Neil A.
AN 2002:557148 HCAPLUS

DN 137:139339

L37 ANSWER 4 OF 39 MEDLINE on STN DUPLICATE 2

TI Role of the heat shock protein 90 in immune response stimulation by bacterial DNA and synthetic oligonucleotides.

SO Infection and immunity, (2001 Sep) Vol. 69, No. 9, pp. 5546-52.
Journal code: 0246127. ISSN: 0019-9567.

AU Zhu F G; Pisetsky D S

AN 2001454842 MEDLINE

L37 ANSWER 5 OF 39 MEDLINE on STN DUPLICATE 3

TI Lipopolysaccharides from distinct pathogens induce different classes of immune responses in vivo.

SO Journal of immunology (Baltimore, Md. : 1950), (2001 Nov 1) Vol. 167, No. 9, pp. 5067-76.
Journal code: 2985117R. ISSN: 0022-1767.

AU Pulendran B; Kumar P; Cutler C W; Mohamadzadeh M; Van Dyke T; Banchereau J

AN 2001567366 MEDLINE

L37 ANSWER 6 OF 39 MEDLINE on STN DUPLICATE 4

TI DNA from protozoan parasites Babesia bovis, Trypanosoma cruzi, and T. brucei is mitogenic for B lymphocytes and stimulates macrophage expression of interleukin-12, tumor necrosis factor alpha, and nitric oxide.

SO Infection and immunity, (2001 Apr) Vol. 69, No. 4, pp. 2162-71.
Journal code: 0246127. ISSN: 0019-9567.

AU Shoda L K; Kegerreis K A; Suarez C E; Roditi I; Corral R S; Bertot G M;

Norimine J; Brown W C

AN 2001208132 MEDLINE

L37 ANSWER 7 OF 39 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN

AN 2001247848 ESBIIOBASE

TI Interleukin-12 prevents diaphragm muscle deterioration in a septic animal model

AU Nakahata E.; Shindoh Y.; Takayama T.; Shindoh C.

CS C. Shindoh, Department of Medical Technology, College of Medical Sciences, Tohoku University, 2-1 Seiryō Machi, Aoba-ku, Sendai 980-8575, Japan.

E-mail: cshindoh@mail.cc.tohoku.ac.jp

SO Comparative Biochemistry and Physiology - A Molecular and Integrative Physiology, (2001), 130/4 (653-663), 23 reference(s)

CODEN: CBPAB5 ISSN: 1095-6433

PUI S1095643301003968

DT Journal; Article

CY United States

LA English

SL English

L37 ANSWER 8 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI Legionella pneumophila inhibits macrophage IL-12 production by targeting the MAP kinase cascade.

SO Abstracts of the General Meeting of the American Society for Microbiology, (2001) Vol. 101, pp. 349. print.

Meeting Info.: 101st General Meeting of the American Society for Microbiology. Orlando, FL, USA. May 20-24, 2001. American Society of Microbiology.

ISSN: 1060-2011.

AU Matsunaga, K. [Reprint author]; Klein, T. W. [Reprint author]; Friedman,

H. [Reprint author]; Yamamoto, Y. [Reprint author]

AN 2002:223243 BIOSIS

L37 ANSWER 9 OF 39 MEDLINE on STN DUPLICATE 5

TI Combination suicide/cytokine gene therapy as adjuvants to a defective herpes simplex virus-based cancer vaccine.

SO Gene therapy, (2001 Feb) Vol. 8, No. 4, pp. 332-9.

Journal code: 9421525. ISSN: 0969-7128.

AU Toda M; Martuza R L; Rabkin S D

AN 2001368278 MEDLINE

L37 ANSWER 10 OF 39 MEDLINE on STN DUPLICATE 6

TI Mucosal immune network in the gut for the control of infectious diseases.

SO Reviews in medical virology, (2001 Mar-Apr) Vol. 11, No. 2, pp. 117-33.

Ref: 122

Journal code: 9112448. ISSN: 1052-9276.

AU Iijima H; Takahashi I; Kiyono H

AN 2001164194 MEDLINE

L37 ANSWER 11 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI IFN-gamma response in patients with Legionnaires' disease (LD).

SO Abstracts of the Interscience Conference on Antimicrobial Agents and Chemotherapy, (2001) Vol. 41, pp. 66. print.

Meeting Info.: 41st Annual Meeting of the Interscience Conference on Antimicrobial Agents and Chemotherapy. Chicago, Illinois, USA. September 22-25, 2001.

AU Lettinga, K. D. [Reprint author]; van der Poll, T. [Reprint author]; Speelman, P. [Reprint author]; Verbon, A. [Reprint author]

AN 2002:499565 BIOSIS

L37 ANSWER 12 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Protein disulfide isomerase-mediated cell-free assembly of recombinant interleukin-12 p40 homodimers

SO European Journal of Biochemistry (2000), 267(22), 6679-6683

CODEN: EJBCAI; ISSN: 0014-2956

AU Martens, Erik; Alloza, Iraide; Scott, Christopher J.; Billiau, Alfons; Vandenbroeck, Koen

AN 2000:819955 HCAPLUS

DN 134:99275

L37 ANSWER 13 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Modulation of innate and acquired immune responses by Escherichia coli heat-labile toxin: distinct pro- and anti-inflammatory effects of the nontoxic AB complex and the enzyme activity

SO Journal of Immunology (2000), 165(10), 5750-5759

CODEN: JOIMA3; ISSN: 0022-1767

AU Ryan, Elizabeth J.; McNeela, Edel; Pizza, Mariagrazia; Rappuoli, Rino; O'Neill, Luke; Mills, Kingston H. G.

AN 2000:825836 HCAPLUS

DN 134:99544

L37 ANSWER 14 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Lack of a role of cytotoxic necrotizing factor 1 toxin from Escherichia coli in bacterial pathogenicity and host cytokine response in infected germfree piglets

SO Infection and Immunity (2000), 68(2), 839-847

CODEN: INFIBR; ISSN: 0019-9567

AU Fournout, S.; Dozois, C. M.; Odin, M.; Desautels, C.; Peres, S.; Herault, F.; Daigle, F.; Segafredo, C.; Laffitte, J.; Oswald, E.; Fairbrother, J. M.; Oswald, I. P.

AN 2000:81783 HCAPLUS

DN 132:221165

L37 ANSWER 15 OF 39 MEDLINE on STN DUPLICATE 7

TI Activation of human peripheral blood mononuclear cells by nonpathogenic bacteria in vitro: evidence of NK cells as primary targets.

SO Infection and immunity, (2000 Feb) Vol. 68, No. 2, pp. 752-9.

Journal code: 0246127. ISSN: 0019-9567.

AU Haller D; Blum S; Bode C; Hammes W P; Schiffrin E J

AN 2000107081 MEDLINE

L37 ANSWER 16 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI In vitro and in vivo effects of an immunomodulator composed of Escherichia coli lipopolysaccharide and Propionibacterium granulosum-inactivated cells in pigs
 SO Journal of Veterinary Medicine, Series B (2000), 47(8), 619-627
 CODEN: JVMBE9; ISSN: 0931-1793
 AU Mendoza, G. J. Pappaterra; De Antonio, E. Mateu; Badal, M. E. Novell; Castillo, M. Martin; Fabrega, J. Casal; Puig, J. Marca
 AN 2000:774188 HCAPLUS
 DN 134:324860

L37 ANSWER 17 OF 39 MEDLINE on STN DUPLICATE 8
 TI Modulation of interleukin-12 synthesis by DNA lacking the CpG motif and present in a mycobacterial cell wall complex.
 SO Cancer immunology, immunotherapy : CII, (2000 Aug) Vol. 49, No. 6, pp. 325-34.
 Journal code: 8605732. ISSN: 0340-7004.
 AU Filion M C; Filion B; Reader S; Menard S; Phillips N C
 AN 2000402389 MEDLINE

L37 ANSWER 18 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Renal cytokine responses in acute Escherichia coli pyelonephritis in IL-6-deficient mice
 SO Clinical and Experimental Immunology (2000), 122(2), 200-206
 CODEN: CEXIAL; ISSN: 0009-9104
 AU Khalil, A.; Tullus, K.; Bartfai, T.; Bakhiet, M.; Jaremko, G.; Brauner, A.
 AN 2000:868531 HCAPLUS
 DN 135:59984

L37 ANSWER 19 OF 39 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN
 TI [Increase of levels of interleukin-2 and -12 as well as tumor necrosis factor- α in cancer patients treated with serial doses of Propionibacterium acnes and endotoxin of Escherichia coli].
 ANSTIEG DER SERUMSPIEGEL VON INTERLEUKIN-2, TUMORNEKROSE-FAKTOR- α UND INTERLEUKIN-12 NACH APPLIKATION VON PROPIONIBACTERIUM ACNES UND ESCHERICHIA-COLI-ENDOTOXIN BEI KREBSPATIENTEN.
 SO Biologische Medizin, (2000) Vol. 29, No. 4, pp. 187-190. .
 Refs: 22
 ISSN: 0340-8671 CODEN: BIMEFA
 AU Palencia C.; Rodriguez V.M.; Sepulveda M.
 AN 2000281015 EMBASE

L37 ANSWER 20 OF 39 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 9
 TI Induction and regulation of Th1-inducing cytokines by bacterial DNA, lipopolysaccharide, and heat-inactivated bacteria
 SO Infection and Immunity [Infect. Immun.], (19991200) vol. 67, no. 12, pp. 6257-6263.
 ISSN: 0019-9567.
 AU Huang, L.-Y.; Krieg, A.M.; Eller, N.; Scott, D.E.*
 AN 2000:24496 LIFESCI

L37 ANSWER 21 OF 39 MEDLINE on STN DUPLICATE 10
 TI Prostaglandin E(1) protects against liver injury induced by Escherichia coli infection via a dominant Th2-like response of liver T cells in mice.
 SO Hepatology (Baltimore, Md.), (1999 Dec) Vol. 30, No. 6, pp. 1464-72.
 Journal code: 8302946. ISSN: 0270-9139.
 AU Mokuno Y; Takano M; Matsuguchi T; Nishimura H; Washizu J; Naiki Y; Nimura Y; Yoshikai Y
 AN 2000042322 MEDLINE

L37 ANSWER 22 OF 39 MEDLINE on STN DUPLICATE 11
 TI Methyl-prednisolone up-regulates monocyte interleukin-10 production in stimulated whole blood.

SO Scandinavian journal of immunology, (1999 May) Vol. 49, No. 5, pp. 548-53.
Journal code: 0323767. ISSN: 0300-9475.

AU Hodge S; Hodge G; Flower R; Han P
AN 1999255730 MEDLINE

L37 ANSWER 23 OF 39 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 12
TI Bacterial DNA and CpG-Containing Oligodeoxynucleotides Activate Cutaneous Dendritic Cells and Induce IL-12 Production: Implications for the Augmentation of Th1 Responses
SO International Archives of Allergy and Immunology [Int. Arch. Allergy Immunol.], (19990000) vol. 118, no. 2-4, pp. 457-461.
ISSN: 1018-2438.

AU Jakob, T.; Walker, P.S.; Krieg, A.M.; Von Stebut, E.; Udey, M.C.; Vogel, J.C.
AN 1999:84322 LIFESCI

L37 ANSWER 24 OF 39 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
AN 1999203122 ESBIOBASE
TI The intestinal microflora regulates cytokine production positively in spleen-derived macrophages but negatively in bone marrow-derived macrophages
AU Nicaise P.; Gleizes A.; Sandre C.; Kergot R.; Lebrech H.; Forestier F.; Labarre C.
CS C. Labarre, Faculte de Pharmacie, Dept. Microbiologie et Immunologie, Universite Paris XI, 5 rue JB-Clement, 92296 Chatenay-Malabry Cedex, France.
SO European Cytokine Network, (1999), 10/3 (365-372), 50 reference(s)
CODEN: ECYNEJ ISSN: 1148-5493
DT Journal; Article
CY France
LA English
SL English

L37 ANSWER 25 OF 39 MEDLINE on STN DUPLICATE 13
TI Lactobacilli from human gastrointestinal mucosa are strong stimulators of IL-12 production.
SO Clinical and experimental immunology, (1999 May) Vol. 116, No. 2, pp. 276-82.
Journal code: 0057202. ISSN: 0009-9104.

AU Hessle C; Hanson L A; Wold A E
AN 1999271056 MEDLINE

L37 ANSWER 26 OF 39 MEDLINE on STN DUPLICATE 14
TI Prostaglandin E2 protects against liver injury after Escherichia coli infection but hampers the resolution of the infection in mice.
SO Journal of immunology (Baltimore, Md. : 1950), (1998 Sep 15) Vol. 161, No. 6, pp. 3019-25.
Journal code: 2985117R. ISSN: 0022-1767.

AU Takano M; Nishimura H; Kimura Y; Washizu J; Mokuno Y; Nimura Y; Yoshikai Y
AN 1998414298 MEDLINE

L37 ANSWER 27 OF 39 MEDLINE on STN DUPLICATE 15
TI Construction and characterization of a triple-recombinant vaccinia virus encoding B7-1, interleukin 12, and a model tumor antigen.
SO Journal of the National Cancer Institute, (1998 Dec 16) Vol. 90, No. 24, pp. 1881-7.
Journal code: 7503089. ISSN: 0027-8874.

AU Carroll M W; Overwijk W W; Surman D R; Tsung K; Moss B; Restifo N P
AN 1999077461 MEDLINE

L37 ANSWER 28 OF 39 MEDLINE on STN DUPLICATE 16
TI Bacterially preexposed T cells impair bacterial elimination by non-Th1/Th2 cell mechanisms in a model of intra-abdominal infection.
SO Surgery, (1998 Aug) Vol. 124, No. 2, pp. 418-28.

Journal code: 0417347. ISSN: 0039-6060.

AU Gleason T G; Sawyer R G; Pruett T L
AN 1998371424 MEDLINE

L37 ANSWER 29 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Cloning and expression of ovine interleukin-5 and interleukin-12 cDNAs and
use of the cytokines for treatment and prophylaxis of livestock infections
SO PCT Int. Appl., 77 pp.

CODEN: PIXXD2

IN Seow, Heng-Fong; Wood, Paul

AN 1997:168552 HCAPLUS

DN 126:153672

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9700321	A1	19970103	WO 1996-AU360	19960614
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
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L37 ANSWER 30 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
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L37 ANSWER 31 OF 39 MEDLINE on STN DUPLICATE 17

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L37 ANSWER 32 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

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L37 ANSWER 33 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

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L37 ANSWER 35 OF 39 MEDLINE on STN DUPLICATE 19
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L37 ANSWER 36 OF 39 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
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L37 ANSWER 37 OF 39 MEDLINE on STN DUPLICATE 20
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L37 ANSWER 38 OF 39 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
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L37 ANSWER 39 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
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=> d ab 12,29

L37 ANSWER 12 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
 AB Interleukin-12 (IL-12) is a heterodimeric cytokine composed of two subunits, p35 and p40. The disulfide-linked homodimer (p40)₂ has been shown to be a potent IL-12 antagonist. In the present study, the p40 subunit was refolded from *Escherichia coli* inclusion bodies. Formation of (p40)₂ was greatly increased in a redox buffer containing reduced and oxidized glutathione, but was not significantly affected by the cosolvents urea,

GdnHCl or Chaps. While protein disulfide isomerase (PDI), GroEL/ES or DnaK/J/GrpE suppressed aggregation during refolding of p40, only DnaK/J/GrpE and PDI enhanced p40 dimerization. Oxidative assembly of p40 into (p40)₂ by PDI, but not suppression of aggregation, was strongly dependent on inclusion of BSA in the refolding buffer. It is concluded that both chaperone-like and disulfide isomerase effects are essential for correct folding of p40 into dimers.

L37 ANSWER 29 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

AB The present invention relates to a nucleic acid mol. comprising a nucleotide sequence encoding, or complementary to a sequence encoding, an ovine IL-5 or IL-12 cytokine mol. The invention further provides recombinant ovine IL-5 and IL-12 polypeptides which are useful as immune response modulators in livestock animals. The cDNAs for sheep IL-5 and for the 35- and 40-kilodalton subunits of sheep IL-12 were cloned and sequenced. Escherichia coli expression vectors for these cytokines and mammalian cell expression vectors for the IL-12 subunits were prepared. Adjuvant activity of recombinant IL-5 and IL-12 in sheep was demonstrated.

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